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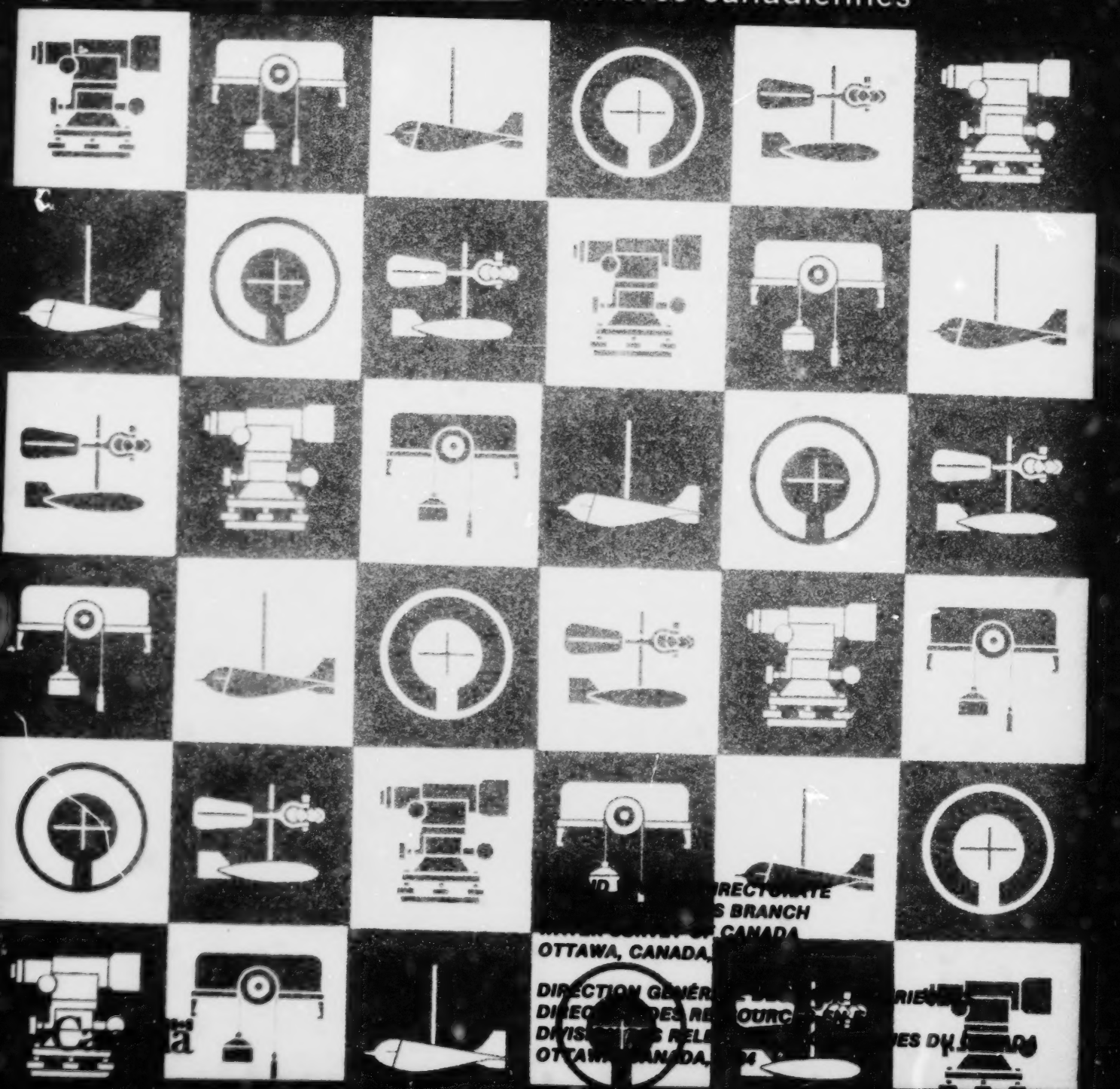
Sediment Data
Canadian Rivers
1982

Données sur les sédiments
Rivières canadiennes



Metric Commission Canada has granted use of the National Symbol for Metric Conversion. The metric usage in this text has been reviewed by the Metric Screening Office of the Canadian General Standards Board.

La Commission du système métrique Canada a autorisé l'utilisation du symbole national de conversion au système métrique. Le Service du contrôle métrique de l'Office des normes générales du Canada a revisé l'utilisation du système métrique dans cette publication.

75
1908-1983

Two of the primary roles of the Water Resources Branch, Environment Canada, are to maintain a systematic hydrometric survey and sediment survey program across the nation. These surveys involve the measurement of the flow, level of water and suspended sediment in rivers, streams and lakes, as well as compilation, analysis and publication of the data. During 1983, the Water Resources Branch will be celebrating 75 years of dedication and service to the hydrologic community.

The history of the hydrometric survey in Canada can be traced back to 1894 when some stream measurement was done in connection with irrigation surveys. However, it was not until 1908, when Parliament made its first specific appropriation for gauging streams and determining the water supply in southern Alberta and Saskatchewan, that the Hydrographic Survey was founded. The year 1911 saw the establishment of the Dominion Water Power Branch, which consolidated the hydrometric survey program already in operation for irrigation requirements, the water power investigation under way on the Winnipeg and Bow rivers, and the administration of water power on Dominion lands. In 1913 and subsequent years, arrangements were made with the provincial governments across Canada to continue the hydrometric survey program under the Dominion Water Power Branch, while passing the administration of nearly all water resources to the provinces.

Sediment Survey investigations of sediment transported by streams were first undertaken by individual organizations or agencies in 1948, to meet the urgent needs for assessment of particular projects. While the investigations were extended to meet the expanding needs of Federal and Provincial agencies after 1948, it was not until 1961 that a systematic survey was begun by the Water Resources Branch.

In 1975 federal-provincial agreements were established which recognized that water quantity data may be collected to meet federal needs, provincial needs, or both. According to the agreements, the operation of the networks would be undertaken on a shared cost basis according to each party's needs.

The Dominion Water Power Branch has undergone numerous name changes over the 75-year period, but a systematic program for the collection and publication of hydrologic data has remained. Today the program spans the nation, with hydrometric data being collected at nearly 3500 different locations and sediment data is available for approximately 500 of these sites, 100 of which are sampled on a regular basis. The results are published annually and more recently is available in a form suitable for computer analysis. The programs are being improved constantly to ensure a continued high calibre of service to the people of Canada.

Deux des principales fonctions de la Direction des ressources en eau d'Environnement Canada consiste à gérer un programme systématique de relevés hydrométriques et d'études des sédiments partout au pays. Ces relevés comprennent la mesure du débit du niveau de l'eau et des matières en suspension dans des cours d'eau et des lacs ainsi que le rassemblement, l'analyse et la publication des données. En 1983, la Direction des ressources en eau célébrera ses 75 ans de dévoués services aux hydrologues.

Les premiers relevés hydrométriques au Canada remontent à 1894; on effectua alors certaines mesures dans des cours d'eau pour faire des relevés se rapportant à l'irrigation. Cependant, ce n'est qu'en 1908, année où le Parlement vota pour la première fois des crédits pour jauger des cours d'eau et calculer l'approvisionnement en eau dans le sud de l'Alberta et de la Saskatchewan, que les Relevés hydrographiques furent créés. L'année 1911 vit la mise sur pied des Services des forces hydrologiques du Dominion qui réunissaient le programme déjà en cours de relevés hydrométriques à des fins d'irrigation, l'étude de l'aménagement hydro-électrique des rivières Winnipeg et Bow, qui était en cours, et la gestion des ressources hydro-électriques des terres du Dominion. En 1913 et au cours des années qui suivirent, des ententes furent conclues avec les gouvernements provinciaux en vertu desquelles le programme de relevés hydrométriques serait poursuivi sous l'égide des Services des forces hydrologiques du Dominion, tandis que la gestion de presque toutes les ressources en eau irait aux provinces.

Les premières études des sédiments transportés par les cours d'eau furent effectuées par des agences ou des organismes privés en 1948 dans le cadre d'analyses de projets précis, exigés pour répondre à des besoins pressants. Bien que les études furent poursuivies pour répondre à la demande croissante des organismes fédéraux et provinciaux après 1948, ce n'est qu'en 1961 que la Direction des ressources en eau a entrepris un programme systématique d'étude des sédiments.

En 1975, le gouvernement fédéral et ceux des provinces conclurent des accords stipulant que des données sur le débit des eaux pouvaient être recueillies pour répondre aux besoins du fédéral ou des administrations provinciales. En vertu de ces accords, l'exploitation des réseaux serait réalisée à frais partagés entre les parties en fonction des besoins de chacune.

Les Services des forces hydrologiques du Dominion ont changé plusieurs fois de nom depuis 75 ans, mais il y a toujours eu un programme systématique de collecte et de publication des données hydrologiques. Aujourd'hui le programme s'étend à tout le pays; des données hydrométriques sont recueillies dans presque 3500 stations différentes, et des données sédimentologiques sont disponibles pour près de 500 d'entre elles, dont 100 où les échantillonnages sont effectués périodiquement. Les résultats sont publiés chaque année et depuis quelque temps, sont présentés de façon à permettre l'analyse sur ordinateur. Les programmes sont améliorés pour que les Canadiens puissent profiter constamment d'un service de haute qualité.

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PREFACE

This publication was prepared by personnel of the Water Survey of Canada Division under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chiefs of the Water Resources Branch at Vancouver, British Columbia; Calgary, Alberta; Regina, Saskatchewan; Winnipeg, Manitoba; Guelph, Ontario and Dartmouth, Nova Scotia, and the Chief, N.W.T. Program, Yellowknife, Northwest Territories.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

La Division des relevés hydrologiques du Canada, sous l'autorité du Directeur des ressources en eau du ministère de l'Environnement (Ottawa), a préparé la présente publication.

On a recueilli et compilé les données de base sous la compétence des chefs régionaux de la Direction des ressources en eau, à Vancouver (Colombie-Britannique), Calgary (Alberta), Regina (Saskatchewan), Winnipeg (Manitoba), Guelph (Ontario) et Dartmouth (Nouvelle-Écosse), et du Chef des programmes des T.N.-O., Yellowknife (T.N.-O.).

On remercie vivement les organismes provinciaux, ou autres, pour la coopération qu'ils ont apportée.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1982 calendar year, the results of the sediment survey investigations in Canada.

Information on the quantity and character of stream-transported sediment provided by the sediment survey investigations is intended for use as a basis for studies of deformation of river channels, erosion and deposition, and in the planning and design of water resource projects.

General introductory information on the sediment survey is included in this Publication. Similar information for the associated hydrometric survey is given in the regular publications containing surface water data.

INTRODUCTION

Dans la présente publication de la Direction des ressources en eau du ministère de l'Environnement, on trouvera les résultats des études des sédiments dans les cours d'eau du Canada pour l'année civile 1982.

Les données d'ordre quantitatif et qualitatif devraient servir de fondement aux études de la déformation des lits des cours d'eau, de l'érosion et de la sédimentation ainsi qu'à la planification et à la conception de projets qui touchent aux ressources en eau.

La présente publication contient également des renseignements généraux préliminaires sur les études des sédiments. Des renseignements semblables sur les études hydrométriques connexes sont contenus dans les publications courantes qui ont trait aux eaux de surface.

Details on individual stations and related records, as well as recent data which have not yet been published may be obtained upon application to one of the following:

Regional Chief,
Water Resources Branch,
Department of the Environment,
502-1001 West Pender Street,
Vancouver, British Columbia.
V6E 2M9
(604 666-3606)

Regional Chief,
Water Resources Branch,
Department of the Environment,
Bag 2909,
Postal Station 'M',
(Room 854,
220-4th Avenue S.E.),
Calgary, Alberta.
T2P 2M7
(403 231-5301)

Regional Chief,
Water Resources Branch,
Department of the Environment,
G.M.C. Building,
1102-8th Avenue,
Regina, Saskatchewan.
S4R 1C9
(306 569-5340)

Regional Chief,
Water Resources Branch,
Department of the Environment,
521 Federal Building,
269 Main Street,
Winnipeg, Manitoba.
R3C 1B2
(204 949-2434)

Regional Chief,
Water Resources Branch,
Department of the Environment,
Federal Building,
75 Farquhar Street,
Guelph, Ontario.
N1H 3N4
(519 821-0110)

Regional Chief,
Water Resources Branch,
Department of the Environment,
5th Floor, Queens Square,
45 Alderney Drive,
Dartmouth, Nova Scotia.
B2Y 2N6
(902 426-5776)

Chief, N.W.T. Programs,
Inland Waters Directorate,
Department of the Environment,
P.O. Box 2970,
Yellowknife, N.W.T.
X1A 2R2
(403 920-8500)

or to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0E7 (819 997-1508).

En s'adressant aux endroits ci-après, on peut obtenir des renseignements supplémentaires sur certaines stations particulières et divers relevés, ainsi que des données récentes non encore publiées.

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
502-1001, rue Pender ouest
Vancouver (C.-B.)
V6E 2M9
(604 666-3606)

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
Sac postal 2909
Succursale postale 'M'
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Calgary (Alberta)
T2P 2M7
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Winnipeg (Manitoba)
R3C 1B2
(204 949-2434)

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
Édifice fédéral
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N1H 3N4
(519 821-0110)

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
Édifice Queens Square,
5e étage
45, prom. Alderney
Dartmouth, (Nouvelle-Écosse)
B2Y 2N6
(902 426-5776)

Chef des programmes des
T.N.-O.
Direction générale des eaux
intérieures
Ministère de l'Environnement
C.P. 2970
Yellowknife (T.N.-O.)
X1A 2R2
(403 920-8500)

ou Directeur, Direction des ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0E7 (819 997-1508).

SCOPE OF THIS PUBLICATION

This paper contains data on streamflow, daily suspended sediment discharges, daily mean suspended sediment concentration, particle-size distribution of suspended sediment, particle-size distribution of bed load, particle-size distribution of bed material, and water temperature for the Calendar year 1982. More detailed information regarding individual stations and related records, or recent data which have not yet been published, may be obtained upon application to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario.

PORTÉE DE LA PRÉSENTE PUBLICATION

La présente publication contient des données sur les débits des cours d'eau, sur les débits quotidiens des sédiments en suspension, sur la concentration moyenne quotidienne des sédiments en suspension, sur la granulométrie des sédiments en suspension, du charriage de fond et des matériaux de fond et sur la température de l'eau pour l'année civile 1982. Pour plus amples renseignements sur les stations et les données qui y sont recueillies ou sur des données qu'on n'a pas encore publiées, prière de s'adresser au Directeur des ressources en eau, ministère de l'Environnement, Ottawa (Ontario).

ORGANIZATION AND HISTORY OF SEDIMENT SURVEYS IN CANADA

In Canada, investigations of sediment transported by streams were first undertaken by individual organizations or agencies in 1948, to meet the urgent needs of Federal and Provincial construction agencies for assessment of particular projects. While the investigations were extended to meet expanding needs after 1948, it was not until 1961 that a systematic survey was undertaken by the Water Resources Branch.

The sediment survey program has the following objectives:

1. Collection and publication of long-term basic sediment records on streams throughout Canada to provide data for:
   (a) Design and operation of reservoirs.
   (b) Design of canals, diversion works and drainage ditches.
   (c) Prediction, evaluation and control of deposition of natural channels.
   (d) Evaluation of erosion control measures.
   (e) Design of treatment facilities for water supply.
   (f) Improvement of fish habitat.

2. Determination of the relationship between sediment transport and various aspects of hydrology and geomorphology, particularly the relationship between sediment and erosion.

3. To increase the availability of sediment survey data to complement the hydrometric survey program in all parts of Canada and the standardization and improvement of equipment and techniques.

CO-OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Data have been mutually exchanged and suspended sediment collection operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain sediment stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining sediment survey records, the Water Survey of Canada is indebted to other Federal and Provincial organizations which are noted as contributing agencies in the summary for the year. A list of these agencies may be found in the Sediment Data Reference Index.

ORGANISATION ET HISTORIQUE DES ÉTUDES DES SÉDIMENTS AU CANADA

Au Canada, les études dans ce domaine ont débuté en 1948 en réponse aux besoins urgents exprimés par certains organismes fédéraux et provinciaux pour l'évaluation de projets de construction donnés et étaient le fait d'organismes privés. Bien que les études se soient poursuivies après 1948 pour satisfaire aux besoins accrus, ce n'est qu'en 1961 que la Direction des ressources en eau les a entreprises de façon systématique.

Les buts des études sont de:

1. réunir et publier des données de base à long terme sur les sédiments dans les cours d'eau canadiens permettant:
   (a) la conception et la mise en oeuvre de réservoirs;
   (b) la conception de canaux, d'ouvrages de dérivation et de fossés de drainage;
   (c) la prédiction, l'évaluation et la réduction de la sédimentation dans les cours d'eau naturels;
   (d) l'évaluation des mesures de lutte contre l'érosion;
   (e) la conception d'installations de traitement pour l'approvisionnement en eau;
   (f) l'amélioration de l'habitat des poissons.

2. établir un rapport entre le transport des sédiments et divers facteurs hydrologiques et géomorphologiques, plus particulièrement avec l'érosion.

3. accroître la disponibilité de données sur les sédiments, à l'appui des relevés hydrométriques exécutés dans tous les coins du pays, et normaliser et améliorer le matériel et les techniques.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données sur les sédiments, et l'assistance fournie par certains organismes a facilité les opérations d'échantillonnage des sédiments en suspension.

Pour ce qui est des eaux adjacentes à la frontière internationale, certaines stations de jaugeage dépendent du Canada (ou des États-Unis) suite à un accord avec les États-Unis (ou le Canada), et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage» dans la présente publication.

La Division des relevés hydrologiques du Canada est redevable à plusieurs organismes fédéraux et provinciaux, dont les noms apparaissent dans le sommaire de l'année, de l'aide et de la collaboration qu'ils lui ont apportées lors de la prise des relevés sur les sédiments. On trouvera également les noms des organismes qui ont fourni des données dans l'*Index de référence des données sur les sédiments*.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

A program for the collection and publication of surface water and sediment data has been carried on for a number of years. Data for the 1964 water year and earlier years were published in the Water Resources Paper series. Subsequent data are being published in a new format adopted for published data of the Water Resources Branch.

To facilitate uniform publication of surface water data, Canada was divided into four main drainages, and a separate Water Resources Paper was published for each drainage. Each paper containing surface water data was identified by a specific number, the name of the drainage and the year(s) in which the data were collected. Commencing with the 1979 publications, data are presented in the International System of Units (SI).

The new format which has now been adopted represents a departure from the Water Resources Paper series. In the new format, Canada is divided into eight regions. The provinces each represent a separate region except for the Atlantic Provinces which together form one region, and the Yukon and Northwest Territories which make up another. In the new series, the publication will be identified by the province(s) or territories covered and the year in which the data were collected.

The publications containing sediment data are being published in the new format but in a single publication for all of Canada, as heretofore.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Paper containing sediment data incorporates a selection of these data and also data for part of the year ending September 30, 1961 at stations established for the continuing program. The second issue is a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* were published annually, the same as for the Surface Water Data publications but in one volume. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI) and will continue to be published on an annual basis.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations where sediment data in Canada were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a new biennial publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI) and future editions will be published every five years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

La cueillette et la publication des données sur les eaux de surface et les sédiments sont en oeuvre depuis un certain nombre d'années. On a publié, dans la série intitulée *Water Resources Papers*, les données pour l'année hydrologique 1964 et des années précédentes. Par la suite, on les a publiées selon une nouvelle présentation adoptée pour les données de la Division des ressources en eau.

Pour des raisons d'uniformité, le Canada était divisé en quatre principaux bassins versants, auxquels une publication de la série était consacrée. Toute publication était identifiée par un numéro, le nom du bassin et l'année (les années) de cueillette des données. À partir de 1979, les données sont fournies dans le Système international d'unités (SI).

La nouvelle formule tranche sur l'ancienne: le Canada est divisé en huit régions dont six correspondent aux provinces, une regroupe les provinces de l'Atlantique et une autre les Territoires du Nord-Ouest et le Yukon. Les publications sont maintenant identifiées par le nom des provinces ou des territoires et par l'année de la cueillette des données.

Les données sur les sédiments sont également publiées d'après la nouvelle formule, mais elles sont contenues dans une seule publication, comme par le passé.

De 1948 à 1960, on avait recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenait un choix de ces données ainsi que d'autres, recueillies en 1961 avant le 30 septembre par des stations établies pour la réalisation du programme permanent. La deuxième publication portait sur les données recueillies dans le cadre du programme, au cours des années hydrologiques 1962 et 1963. Toutes les éditions subséquentes intitulées *Données sur les sédiments de rivières canadiennes* étaient publiées annuellement, comme c'est le cas pour les données sur les eaux de surface, mais dans un seul tome. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et la publication va paraître chaque année.

La première édition de l'*Index de référence des données sur les sédiments* renfermait les données disponibles jusqu'en 1972. Elle comprenait une mise en tableaux des emplacements où des données sur les sédiments sont recueillies au Canada par la Division des relevés hydrologiques. L'Index est subdivisé alphabétiquement par province ou territoire et les stations de relevés des sédiments sont classées en ordre alphabétique. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et sont publiées tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une nouvelle série de publications paraissant tous les deux ans et intitulée *Sommaire chronologique des données sur les sédiments de rivières canadiennes* renfermait les données disponibles jusqu'en 1974. Cette série présente un résumé des moyennes mensuelles et annuelles de la charge de sédiments en suspension, des extrêmes annuels de la concentration quotidienne et de la charge quotidienne des sédiments en suspension, ainsi que de la charge totale annuelle des sédiments en suspension. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et les éditions subséquentes vont paraître tous les cinq ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

DEFINITIONS OF TERMS

The following definitions are given to clarify the terms used in this publication:

Automatic pump sample is an individual water-sediment mixture pumped from a fixed point in a stream.

Bed load is that material moving in almost continuous contact with the streambed, being rolled or pushed along the bottom by the force of the water.

Bed load discharge is the weight of bed load passing a cross-section of a stream per unit of time.

Bed material is the sediment mixture of which the streambed is composed.

Depth-integrated sediment sample is a suspended sediment sample collected at a single vertical in a cross-section in a sampler moving vertically at a constant transit rate and represents an average sample for that part of the depth ranging from the water surface to about nine centimetres above the streambed.

Individual sampling vertical is a selected permanent vertical in a cross-section in which individual suspended sediment samples are collected. Individual samples usually consist of a single sample taken on any one day. Two bottles of water-sediment mixture make up each sample.

Instantaneous suspended sediment sample is a sample taken instantaneously at a fixed point in a river cross-section.

Measured suspended sediment discharge is the suspended sediment discharge that can be computed from stream discharge and the concentration of sediment determined from depth-integrated sediment samples.

Particle-size analysis is the process of determining the size distribution of sediment particles in a sediment sample.

Point-integrated sediment sample is a suspended sediment sample taken over a relatively short period of time at a fixed point in a river cross-section.

Sediment is fragmental material transported by, suspended in or deposited by a flowing stream.

Sediment hydrograph is a graph showing the variation of suspended sediment concentration or sediment discharge with respect to time.

Suspended sediment is sediment that moves in suspension in water either as a colloid or through the influence of the upward component of turbulent currents.

Suspended sediment concentration is the ratio of the weight of dry solids in a water-sediment mixture to the volume of the mixture. This ratio is expressed herein as "milligrams per litre" (mg/L).

DÉFINITIONS DES TERMES

Les définitions suivantes sont fournies afin d'éclaircir les termes utilisés dans la présente publication:

Échantillonnage automatique à l'aide d'une pompe (Automatic pump sample): un mélange isolé de sédiments et d'eau prélevé au moyen d'une pompe en un point précis d'un cours d'eau.

Charriage de fond (Bed load): matières déplacées, roulées ou poussées sur le fond sous l'action de l'eau, mais qui restent en contact presque permanent avec le fond.

Débit charrié (Bed load discharge): poids de matériaux de charriage de fond traversant une section transversale d'un cours d'eau par unité de temps.

Matériaux de fond (Bed material): mélange de sédiments composant le lit d'un cours d'eau.

Échantillon intégré en fonction de la profondeur des sédiments en suspension (Depth-integrated sediment sample): échantillon prélevé à l'aide d'un échantillonneur se déplaçant verticalement à une vitesse constante en un point précis d'une section transversale d'un cours d'eau; il représente un échantillon moyen des sédiments répartis de la surface de l'eau à environ neuf centimètres au-dessus du fond.

Verticale d'échantillonnage isolé (Individual sampling vertical): ligne verticale permanente, en un point précis d'une section transversale, où généralement un échantillon est prélevé chaque jour à l'aide de deux bouteilles.

Échantillon instantané de sédiments en suspension (Instantaneous suspended sediment sample): échantillon prélevé à un moment donné en un point précis d'une section transversale d'un cours d'eau.

Débit mesuré des sédiments en suspension (Measured suspended sediment discharge): débit des sédiments en suspension calculé d'après le débit d'un cours d'eau et la concentration des sédiments déterminée par un échantillonnage intégré en fonction de la profondeur.

Analyse granulométrique (Particle-size analysis): procédé consistant à déterminer la répartition de la dimension des particules dans un échantillon de sédiments.

Échantillon ponctuel et intégré des sédiments en suspension (Point-integrated sediment sample): échantillon prélevé au cours d'une période de temps relativement brève en un point précis d'une section transversale d'un cours d'eau.

Sédiments (Sediment): matières fragmentaires transportées, déposées ou en suspension dans un cours d'eau.

Carte hydrographique des sédiments (Sediment hydrograph): graphique représentant la variation de la concentration ou du débit des sédiments en suspension en fonction du temps.

Sédiments en suspension (Suspended sediment): matériaux qui se déplacent au sein de l'eau, soit sous forme colloïdale, soit sous l'influence des forces ascendantes des courants turbulents.

Concentration des sédiments en suspension (Suspended sediment concentration): rapport entre le poids de matières solides sèches contenues dans un mélange eau-sédiments et le volume du mélange. Le rapport s'exprime dans la présente publication en «milligrammes par litre» (mg/L).

Suspended sediment discharge is the quantity of suspended sediment transported through a cross-section per unit of time.

Suspended sediment sample is a quantity of water-sediment mixture representing the average concentration or the average particle-size distribution of suspended sediment.

The median or *median diameter* is the mid-point in the size distribution of a sample in which one-half the weight is composed of particles larger in diameter than the median and the other half, composed of particles smaller in diameter than the median.

Total sediment discharge or *total sediment load* is the sum of the suspended sediment discharge and the bed load discharge.

Unmeasured sediment discharge or *unmeasured sediment load* is the difference between total sediment discharge and measured suspended sediment discharge.

DEFINITION OF SYMBOLS

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge. This symbol is used during open-water periods only.

B – Ice Conditions – indicates the presence of ice at the gauging station. For gauging stations where discharge data are obtained, this symbol indicates that the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates estimated data. It indicates that the values between collected sediment samples of a peak period, are estimated by some indirect method such as interpolation, extrapolation, from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

S – Sample(s) collected this day – indicates that a depth-integrated or point-integrated measurement, automatic or individual sample(s) was collected this day.

COLLECTION AND PROCESSING OF BASIC DATA

1. *Equipment and Instrumentation*

The sediment survey program of the Water Resources Branch is conducted in cross-sections on rivers selected specifically for the sediment survey or for the hydrometric survey. Certain of these cross-sections are located at traffic bridges while others are equipped with cableways, catamaran installations or automatic pump samplers.

The following sediment samplers have been used in the sediment survey program:

(a) Depth-integrating suspended sediment wading-type hand sampler, USDH-48, used on small streams or during winter periods.
(b) Depth-integrating suspended sediment sampler, USDH-59, used as a handline suspension for small and medium size streams.
(c) Depth-integrating suspended sediment sampler, USD-49, used on a reel suspension for medium and large streams whose depths are less than six metres.

Débit des sédiments en suspension (Suspended sediment discharge): quantité de sédiments en suspension traversant une section transversale d'un cours d'eau par unité de temps.

Échantillon de sédiments en suspension (Suspended sediment sample): mélange de sédiments et d'eau représentatif de la granulométrie ou de la concentration moyennes de sédiments en suspension.

Médiane ou *diamètre médian* (The median or median diameter): valeur centrale de la distribution granulométrique des éléments d'un échantillon exprimée d'après le diamètre, en deçà de laquelle se trouve la moitié de la taille de l'échantillon et au-delà de laquelle se trouve l'autre moitié.

Débit total des sédiments ou *charge totale des sédiments* (Total sediment discharge or total sediment load): somme du débit des sédiments en suspension et du débit charrié.

Débit non mesuré des sédiments ou *charge totale non mesurée des sédiments* (Unmeasured sediment discharge or unmeasured sediment load): différence entre le débit total des sédiments et le débit mesuré des sédiments en suspension.

DÉFINITIONS DES SYMBOLES

A – Turbidisonde simple – indique qu'on a effectué à une station de jaugeage dotée d'une turbidisonde enregistreuse au moins une observation par jour à l'aide d'une turbidisonde simple et qu'on s'en est servi comme moyenne pour la journée en question. Le symbole n'est employé qu'au cours des périodes d'eau libre.

B – Glaces – indique la présence de glaces à la station de jaugeage, qui ont faussé la relation hauteur-débit.

E – Estimative – indique des données estimatives, c'est-à-dire que les valeurs fournies entre les prélèvements d'échantillons d'une période de débit de pointe, sont évaluées de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

S – Échantillon(s) prélevé(s) en ce jour – indique qu'on a prélevé un échantillon, intégré selon la profondeur ou ponctuel, automatiquement ou de façon isolée pour la journée en question.

CUEILLETTE ET TRAITEMENT DES DONNÉES DE BASE

1. *Matériel*

L'étude des sédiments réalisée par la Direction des ressources en eau porte sur des sections transversales de cours d'eau choisis spécialement à cette fin ou pour les relevés hydrométriques. Certaines des sections sont situées sous un pont, d'autres sont accessibles par téléphérique, par catamarans ou sont étudiées à l'aide d'un échantillonneur sous pression.

On a utilisé les échantillonneurs suivants:

(a) l'échantillonneur intégré vertical simple, USDH-48, employé dans les cours d'eau peu profonds ou en hiver;
(b) l'échantillonneur intégré vertical, USDH-59, utilisé comme câble porteur dans les cours d'eau petits et moyens;
(c) l'échantillonneur intégré vertical, USD-49, fixé au bout d'une corde s'enroulant autour d'un moulinet et employé dans les cours d'eau gros ou moyens dont la profondeur est inférieure à six mètres;

(d) Depth-integrating suspended sediment sampler, USD-74, used on a reel suspension for medium and large streams whose depths are greater than six metres.

(e) Point-integrating suspended sediment samplers, USP-61 and USP-63, used for point-integrating sampling, or depth-integrating sampling if the depth is over six metres, or in a cross-section with a very high velocity.

(f) Automatic pump sampler is an automatic pumping system permitting unattended collecting and bottling of individual water samples pumped from a fixed point in a stream. This sampler is normally installed at isolated locations where otherwise no data would be available during ice break-up or peak periods.

(g) Bed material sampler, USBM-54, used on large or deep streams or on those with hard-packed streambeds.

(h) Bed material sampler USBMH-53 used on some small or shallow streams.

(i) Lane bed material sampler, a drag-type sampler used on small streams or for those with soft streambeds.

2. *Hydrometric Surveys*

The hydrometric survey includes the standard procedures for daily observations of water levels, streamflow measurements, water surface slope determinations if required, and observations of water temperature. The streamflow measurements are made in conjunction with the sediment discharge measurements and conform to the accepted standards of the regular hydrometric survey.

3. *Sediment Sampling Program*

The following is a summary of the elements associated with the Sediment Sampling Program:

(a) Periodic measurement of suspended sediment discharge by the depth-integrating method (EDI) for determining the average suspended sediment concentration in the cross-section.

(b) Individual suspended sediment samples at a selected vertical for determining the sediment concentration for the days when suspended sediment discharge measurements are not taken.

(c) Limited measurement of suspended sediment discharge by the point-integrating method for checking depth-integrated measurements and for determining particle-size distribution in the cross-section.

(d) Periodic sampling of bed material in the cross-section for determining the average particle-size distribution in the cross-section for the computation of sediment transport.

(e) Periodic measurement of bed load discharge.

The following is a brief explanation of the elements listed above:

(a) *Suspended Sediment Discharge by Depth-Integrating Method*: Measurements are made by the depth-integrating method to determine the amount of suspended sediment load carried in the entire cross-section of a stream and to determine the average suspended sediment concentration in the cross-section, or to determine both the suspended sediment load and the size distribution of the sediment particles. It is known that the concentration of suspended sediment tends to increase from the surface of the water in the stream to the streambed and to vary from side to side.

(d) l'échantillonneur intégré vertical, USD-74, fixé au bout d'une corde s'enroulant autour d'un moulinet et employé dans les cours d'eau gros ou moyens dont la profondeur est supérieure à six mètres;

(e) les échantillonneurs intégrés, ponctuels ou verticaux, USP-61 et USP-63, utilisés dans les cours d'eau d'une profondeur supérieure à six mètres, ou dans les sections transversales qui connaissent un débit très élevé;

(f) l'échantillonneur automatique sous pression employé dans un réseau de pompage automatique et permettant le prélèvement et la mise en bouteille, sans surveillance, d'échantillons isolés d'eau obtenus à l'aide d'une pompe en un point précis d'un cours d'eau; il est ordinairement installé dans un endroit isolé où aucune donnée ne pourrait être obtenue autrement au cours de la débâcle ou des périodes de débit de pointe;

(g) l'échantillonneur de sédiments USBM-54 utilisé dans les cours d'eau importants ou profonds, ou ceux dont le fond est dur;

(h) l'échantillonneur de sédiments USBMH-53 employé dans les cours d'eau petits ou peu profonds; et

(i) la drague employée dans les petits cours d'eau ou dans ceux dont le fond est meuble.

2. *Relevés hydrométriques*

Le relevé hydrométrique comprend, entre autres, l'observation quotidienne de la hauteur des eaux, la mesure du débit, la détermination de la pente de la ligne d'eau, si nécessaire, ainsi que l'observation de la température de l'eau. La mesure du débit d'un cours d'eau et du débit des sédiments se font conjointement selon les normes acceptées.

3. *Échantillonnage des sédiments des cours d'eau*

L'échantillonnage comporte, en gros, les éléments suivants:

(a) la mesure périodique du débit des sédiments en suspension avec intégration selon la profondeur (méthode IDE), afin de déterminer leur concentration moyenne dans une section transversale d'un cours d'eau;

(b) le prélèvement d'échantillons isolés des sédiments en suspension selon une verticale choisie, afin de déterminer la concentration des sédiments qui correspond aux journées où le débit des sédiments en suspension n'est pas mesuré;

(c) un nombre restreint de mesures du débit des sédiments en suspension avec intégration en un point précis d'un cours d'eau, afin de vérifier les résultats des mesures avec intégration selon la profondeur et afin de déterminer la granulométrie des particules de sédiments dans une section transversale d'un cours d'eau;

(d) l'échantillonnage périodique des sédiments dans une section transversale, afin de déterminer la granulométrie des particules dans une section transversale d'un cours d'eau en vue du calcul des sédiments;

(e) la mesure périodique du débit charrié.

Voici une brève explication des éléments susmentionnés.

(a) *Mesure du débit des sédiments en suspension par intégration selon la profondeur*: La méthode permet de déterminer la quantité de sédiments en suspension traversant toute une section transversale d'un cours d'eau et d'y déterminer la concentration moyenne des sédiments en suspension, ou de déterminer tant la charge que la granulométrie des sédiments en suspension. C'est un fait connu que la concentration des sédiments en suspension augmente avec la profondeur et qu'elle varie d'une rive à l'autre d'un cours d'eau.

When making suspended sediment equal-discharge-increment (EDI) measurements, the stream cross-section is divided into at least five equal-flow portions and a representative suspended sediment sample is collected from each portion. For each part of the cross-section, the suspended sediment discharge (r) may then be computed by multiplying the flow (q) by the suspended sediment concentration (c):

$$r = q\ c$$

The suspended sediment discharge (R) for the whole cross-section, may be computed by adding the sediment discharges for the five equal-flow portions:

$$R = r\ n = q_1 c_1 + q_2 c_2 + \ldots + q_n c_n$$

The depth-integrating method of sampling is used to simplify the measurement of the suspended sediment discharge. This method is based on the premise that the sampler fills at a rate proportional to the velocity of the approaching flow, and that by traversing the depth of a stream at a uniform speed, the sampler will receive a portion of water sediment mixture at every point in the vertical.

In addition to the above mentioned method, the suspended sediment discharge at some stations are measured by the (ETR) equal-transit-rate method. By this method, sediment samples are collected by traversing a depth-integrating sampler vertically at a uniform rate at 20 or more selected verticals in a cross-section of the stream, the samples are then combined for analysis. The suspended sediment discharge through the cross-section is determined by multiplying the sediment concentration of the combined sample by the total water discharge.

(b) *Individual Suspended Sediment Samples at a Selected Vertical*: Individual suspended sediment samples are collected routinely with depth-integrating samplers at a permanently fixed vertical in the cross-section during periods with average or high sediment concentration. In the periods with very heavy sediment concentration, two or three sediment samples may be taken per day, while in the periods with low concentration, one sediment sample may be taken every few days. In the winter period when the suspended sediment concentration is usually very low one sample per week or one every two weeks may be collected.

(c) *Suspended Sediment Discharge by Point-Integrating Method*: A limited number of sediment discharge measurements are made by the point-integrating method. These measurements are included in the program, (a) to check by comparison the "measured" sediment discharges obtained by the depth-integrating method with the full suspended sediment discharges by point-integrating method, and, (b) to obtain samples from which to determine particle-size distribution at different points in the cross-section. The point-integrating sediment discharges are computed by graphical methods.

The relationship between the suspended sediment concentration of the individual samples and the average concentration in the cross-section determined from the suspended sediment discharge is established for most stations. Using this relationship, the sediment concentrations of the individual samples are adjusted to reflect the average suspended sediment concentration in the cross-section. These average sediment concentrations in the cross-sections are plotted, and a smooth curve is drawn through the points to obtain a concentration graph. This graph represents the average suspended sediment concentration for the period of record. The daily mean concentrations are determined by automated procedures using a digitizer interfaced with a Digital minicomputer.

Avec la méthode d'incréments de débits égaux (IDE), la mesure du débit des sédiments en suspension se fait en divisant une section transversale d'un cours d'eau en au moins cinq tranches égales, où le débit est constant, et en prélevant un échantillon représentatif dans chacune d'elles. Le débit des sédiments en suspension (r) pour chaque tranche se calcule en multipliant le débit (q) par la concentration des sédiments en suspension (c):

$$r = q\ c$$

Le débit des sédiments en suspension (R), pour toute une section transversale, est obtenu en faisant la somme des débits des sédiments des cinq tranches égales, où le débit est constant:

$$R = r\ n = q_1 c_1 + q_2 c_2 + \ldots + q_n c_n$$

La méthode par intégration selon la profondeur est employée pour simplifier la mesure du débit des sédiments en suspension. L'échantillonneur se remplit à un taux proportionnel au débit du milieu où il se trouve et, en étant déplacé selon toute la verticale, il reçoit une partie du mélange eau-sédiments à tous les points de cette dernière.

Dans certaines stations, on mesure en outre le débit des sédiments en suspension par la méthode ETR (*Equal-Transit-Rate Method*). Les prélèvements se font à l'aide d'un appareil intégrateur selon la profondeur, à une vitesse uniforme, à 20 verticales et plus d'une section transversale d'un cours d'eau et les échantillons obtenus sont réunis pour l'analyse. Le débit des sédiments en suspension pour une section transversale est calculé en multipliant la concentration des sédiments des échantillons réunis par le débit global d'un cours d'eau.

(b) *Prélèvements d'échantillons isolés des sédiments en suspension selon une verticale choisie*: Les prélèvements se font régulièrement à l'aide d'appareils intégrateurs selon la profondeur, en un point permanent précis d'une section transversale, au cours des périodes où la concentration des sédiments est moyenne ou élevée. Lorsque la concentration des sédiments est très forte, deux ou trois échantillonnages peuvent être effectués chaque jour, alors qu'un seul échantillon tous les quelques jours peut avoir lieu lorsqu'elle est faible. En hiver, saison où la concentration des sédiments en suspension est ordinairement très faible, un échantillon par semaine ou toutes les deux semaines est suffisant.

(c) *Mesure du débit des sédiments en suspension par la méthode ponctuelle*: La méthode se limite à un petit nombre de mesures; on y a recours, car elle permet (a) de vérifier les valeurs du débit des sédiments mesuré grâce à la méthode précédente et (b) d'obtenir des échantillons qui permettent l'analyse granulométrique des sédiments en divers points d'une section transversale. Dans cette méthode, les débits des sédiments sont calculés à l'aide de graphiques.

Le rapport entre la concentration des sédiments en suspension dans les échantillons isolés et la concentration moyenne des sédiments dans une section transversale, telle que déterminée à partir du débit des sédiments en suspension, est établi pour la plupart des stations. Il sert à amener les échantillons isolés des concentrations des sédiments à refléter la concentration moyenne des sédiments en suspension dans une section transversale. Le graphique de la concentration moyenne des sédiments en suspension dans une section transversale est obtenu en traçant une courbe qui passe à travers des points déterminés. Ce graphique représente la concentration moyenne des sédiments en suspension pour la période d'enregistrement. Les concentrations moyennes quotidiennes sont déterminées automatiquement à l'aide d'un convertisseur analogique-numérique relié à un mini-ordinateur numérique.

The daily suspended sediment loads are computed on the basis of stream discharges and the adjusted suspended sediment concentrations. The daily suspended sediment loads are expressed in tonnes per day and are obtained by multiplying the daily mean sediment concentration, in milligrams per litre (mg/L), by the daily mean discharge, in cubic metres per second (m^3/s), and the appropriate conversion factor, normally 0.0864.

(d) *Periodic Sampling of Bed Material*: In a cross-section, bed material samples and suspended sediment samples usually are taken in the same verticals. Often, additional bed material samples are collected at the water edge, the extreme water level or at other points in the cross-section. The total number of bed material samples taken in a cross-section usually varies between five and nine.

(e) *Bed Load Discharge*: There are several methods available for measurement of bed load (volumetric method, measurement by samplers, method of tracers, method of constricted cross-section, study of sound waves, etc.). The measurement methods should be selected in accordance with river regime.

4. *Total Sediment Discharge*

Sediment transport may be divided into two categories: sediment maintained in suspension in the stream (suspended load), and sediment being carried along the streambed (bed load). To measure the total sediment load, each of these must be measured separately and then totalled. The total sediment load was not computed for this publication.

5. *Sediment Survey Laboratories*

The Water Resources Branch maintain sediment survey laboratories in New Westminster, British Columbia; Regina, Saskatchewan; Guelph, Ontario and Moncton, New Brunswick. The laboratories are equipped to perform the following analyses:

(a) determination of sediment concentration by (1) evaporation method and (2) filtration method, and determination of dissolved solids by evaporation method.

(b) particle-size distribution analysis by (1) bottom withdrawal method, (2) pipet method, (3) visual accumulation tube method, (4) sieving and (5) hydrometer.

Determination of the sediment concentration by the evaporation method is carried out by evaporating the water from the settled sediment sample, with the results being corrected for dissolved solids. The quantity of dissolved solids is determined by evaporating a portion of the decanted water of a sample. In the filtration method, the suspended sediment concentration of water samples is determined by utilizing Gooch crucibles with a Reeve Angel 934AH filter and a Millipore AP20 prefilter and a vacuum system.

For purposes of this publication, particle-size analysis was carried out for all bed material samples; however, most of the suspended sediment samples with concentrations below 300 mg/L were not analysed for particle-size distribution. Determination of sand sizes and analysis of sediment coarser than 0.062 mm generally were made by sieve analysis, in some cases when samples have particle sizes between 0.062 mm and 1.000 mm they could be analysed by the visual accumulation tube method. Depending upon the amount

Les valeurs quotidiennes du débit des sédiments en suspension sont calculées à partir du débit d'un cours d'eau et des concentrations corrigées des sédiments en suspension. Exprimées en tonnes par jour, elles représentent le produit de la concentration moyenne quotidienne des sédiments, en milligrammes par litre (mg/L), par le débit moyen quotidien, en mètre cubes par seconde (m^3/s), et par un facteur de conversion approprié, ordinairement 0.0864.

(d) *Échantillonnage périodique des matériaux de fond*: Dans une section transversale, les échantillons des sédiments en suspension et des sédiments sont ordinairement prélevés à la même verticale. Souvent, des échantillons supplémentaires des sédiments sont pris près des rives, au niveau d'eau extrême ou à d'autres points d'une section transversale. Leur nombre total pour une section transversale donnée varie ordinairement entre cinq et neuf.

(e) *Mesure du débit charrié*: La mesure peut se faire par plusieurs méthodes (méthode volumétrique, mesure à l'aide d'échantillonneurs, méthode des traceurs, méthode de la section transversale rétrécie, étude des ondes sonores, etc.) dont le choix se fondera sur la nature du régime d'un cours d'eau.

4. *Débit total des sédiments*

Il y a deux catégories de sédiments: les sédiments maintenus en suspension au sein de l'eau (sédiments en suspension), et les sédiments charriés sur le lit d'un cours d'eau (charriage de fond). Les deux types de sédiments doivent être mesurés séparément et leurs valeurs additionnées si on veut mesurer le débit total des sédiments. Toutefois, on ne l'a pas calculé aux fins de la présente publication.

5. *Laboratoires d'analyse*

La Direction des ressources en eau possède des laboratoires d'analyse des sédiments à New Westminster (Colombie-Britannique), Regina (Saskatchewan), Guelph (Ontario) et Moncton (Nouveau-Brunswick). Les laboratoires disposent des appareils nécessaires pour effectuer les analyses suivantes:

(a) la détermination de la concentration des sédiments par (1) évaporation et (2) filtration, et la détermination des matières dissoutes par évaporation.

(b) l'analyse granulométrique (1) par extraction des sédiments déposés dans un tube, (2) par la méthode à la pipette, (3) par observation visuelle de l'accumulation des sédiments dans un tube, (4) par l'emploi de tamis et (5) par l'utilisation d'un hydromètre.

La méthode par évaporation consiste à faire évaporer l'eau d'un échantillon de sédiments décanté et à soustraire des résultats la concentration des matières dissoutes. La quantité est déterminée en faisant évaporer une partie de l'eau de l'échantillon décanté. Dans la méthode par filtration, on utilise sous vide des creusets de Gooch munis d'un filtre Reeve Angel 934AH et d'un préfiltre Millipore AP20.

Aux fins de la présente publication, on a effectué l'analyse granulométrique pour tous les échantillons des matériaux de fond; toutefois, la plupart des échantillons de sédiments en suspension de concentration inférieure à 300 mg/L n'ont pas fait l'objet d'une telle analyse. On a généralement déterminé la taille des grains de sable et analysé les matériaux de taille supérieure à 0.062 mm à l'aide de tamis; dans certains cas, on pourrait analyser, par observation visuelle de l'accumulation, les échantillons dont la taille des

of sediment, the samples with particle sizes smaller than 0.062 mm were analysed by the bottom withdrawal tube, the pipet, or the hydrometer methods. Distilled water or mixed native and distilled waters were used as the settling medium. In some instances, chemical dispersing agents were added to the settling medium.

The particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)
Clay	0.00024 - 0.004
Silt	0.004 - 0.062
Sand	0.062 - 2.0
Gravel	2.0 - 64.0

The particle size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

6. *Accuracy and Reliability of Field Data and Computed Results*

The overall accuracy and degree of reliability of the sediment data referred to herein, is dependent upon many factors. Some of the more important of these are:

(a) accuracy and reliability of streamflow records;
(b) regime of the river;
(c) type of sampling equipment used to collect the suspended sediment samples;
(d) frequency of suspended sediment discharge measurements;
(e) frequency of individual sampling;
(f) quality of the relationship between the average suspended sediment concentration in the cross-section and the concentration of the individual samples;
(g) frequency and method of bed material sampling;
(h) frequency and method of bed load measurements;
(i) accuracy and reliability of the laboratory analysis;
(j) selected methods of computation of the suspended sediment discharge;
(k) interpretation and extrapolation of sediment records.

An assessment of the quality of the records can be made by an examination of the occurrence of the symbols A, B, E and S.

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

particules est comprise entre 0.062 et 1.000 mm. D'après leur concentration, on a analysé les échantillons dont la taille des particules était inférieure à 0.062 mm, soit par observation visuelle de leur accumulation, par la méthode à la pipette ou à l'aide d'un hydromètre. On a employé de l'eau distillée ou un mélange d'eau naturelle et distillée comme milieu de décantation et, dans certains cas, on a ajouté des agents dispersants chimiques.

La classification granulométrique qui est utilisée dans la présente publication est conforme aux recommandations faites par l'*American Geophysical Union Subcommittee on Sediment Terminology*. La classification est la suivante:

Classification	Taille (mm)
Argile	0.00024 - 0.004
Limon	0.004 - 0.062
Sable	0.062 - 2.0
Gravier	2.0 - 64.0

La répartition granulométrique qui est fournie dans cette publication, n'est pas obligatoirement représentative de toutes les particules qui sont transportées par un cours d'eau donné. La plupart des matières organiques sont extraites de l'échantillon qui est ensuite soumis à une dispersion mécanique et chimique et analysé dans de l'eau distillée. La dispersion chimique ne sert pas à l'analyse de l'eau naturelle.

6. *Exactitude des données et des résultats*

L'exactitude des données sur les sédiments utilisées dans la présente étude dépend de nombreux facteurs. On peut citer, parmi les plus importants:

(a) l'exactitude des données sur les débits;
(b) le régime d'un cours d'eau;
(c) le type d'appareil d'échantillonnage utilisé pour prélever les échantillons de sédiments en suspension;
(d) la fréquence des mesures du débit des sédiments en suspension;
(e) la fréquence des échantillonnages isolés;
(f) la qualité du rapport entre la concentration moyenne des sédiments en suspension dans une section transversale et la concentration des échantillons isolés;
(g) la fréquence des échantillonnages des matériaux de fond et la méthode utilisée;
(h) la fréquence des mesures du charriage de fond et la méthode utilisée;
(i) l'exactitude des analyses de laboratoire;
(j) les méthodes de calcul du débit des sédiments en suspension;
(k) l'interprétation et l'extrapolation des données sur les sédiments.

La qualité des données peut être évaluée par l'examen de la fréquence d'utilisation des symboles A, B, E et S.

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas de petits cours d'eau ou de cours à crues très rapides.

METHOD OF TABULATION OF RUNOFF AND SEDIMENT SURVEY DATA

For gauging stations where a systematic record of streamflow and sediment discharge was obtained, the following data are given where available:

1. Table of daily suspended sediment yield.
2. Summary of monthly and annual data.
3. Descriptive information.
4. Table of particle-size analysis of suspended sediment.
5. Table of particle-size analysis of bed load.
6. Table of particle-size analysis of bed material.

1. *The Table of Daily Suspended Sediment Yield* includes the daily discharge in cubic metres per second, the daily mean concentration in milligrams per litre, the daily suspended sediment yield in tonnes per day, water temperatures in degrees Celsius observed in the cross-section during flow measurements or during the suspended sediment sampling.

2. *A Summary of Monthly and Annual Data* is given following the table of daily suspended sediment.

For stations where only concentrations are obtained no monthly or annual data are given.

For stations where sediment yield in tonnes per day are produced for partial years only, no annual data are given.

For stations where sediment yield in tonnes per day are produced, for complete years or standard periods, both the monthly and annual summary are given.

The monthly summary gives:

(a) the total of the daily discharge values for complete months;
(b) the mean discharge in cubic metres per second;
(c) the total of the daily sediment yield values in tonnes per day for complete months;
(d) the mean sediment yield in tonnes per day.

The summary for the year or period gives:

(a) the total suspended sediment load in tonnes;
(b) the mean suspended sediment concentration in milligrams per litre, and computed as total suspended sediment load ÷ total streamflow;
(c) the maximum and minimum daily concentration in milligrams per litre;
(d) the mean suspended sediment load in tonnes per day;
(e) the maximum and minimum daily load in tonnes per day.

3. The descriptive information about the gauging station is also given below the table of daily suspended sediment and will indicate the following where applicable:

PRÉSENTATION SOUS FORME DE TABLEAUX DES DONNÉES SUR LE RUISSELLEMENT ET LES SÉDIMENTS

Pour les stations de jaugeage où on a effectué un relevé systématique du débit d'un cours d'eau et des sédiments, les données suivantes sont présentées, pour autant qu'elles sont disponibles:

1. le tableau du débit quotidien des sédiments en suspension;
2. un extrait des données mensuelles et annuelles;
3. des renseignements descriptifs;
4. le tableau de la granulométrie des sédiments en suspension;
5. le tableau de la granulométrie du charriage de fond; et
6. le tableau de la granulométrie des matériaux de fond.

1. *Le tableau du débit quotidien des sédiments en suspension* (The Table of Daily Suspended Sediment Yield) donne le débit quotidien, en mètres cubes par seconde, la concentration quotidienne moyenne, en milligrammes par litre, le débit quotidien des sédiments en suspension, en tonnes par jour, la température de l'eau, en degrés Celsius, dans une section transversale au moment de la mesure du débit ou de l'échantillonnage des sédiments en suspension.

2. *Un extrait des données mensuelles et annuelles* (A Summary of Monthly and Annual Data) est donné au-dessous du tableau des sédiments en suspension quotidiens.

Aucune donnée mensuelle ou annuelle n'est fournie pour les stations où on ne mesure que la concentration.

Aucune donnée annuelle n'est fournie pour les stations où on ne mesure que le débit des sédiments en tonnes par jour pendant une partie de l'année.

Les extraits mensuels et annuels sont présentés dans le cas des stations où on a mesuré le débit des sédiments en tonnes par jour pour l'année entière ou des périodes bien définies.

L'extrait mensuel donne:

(a) le total des valeurs quotidiennes du débit, pour le mois entier;
(b) le débit moyen en mètres cubes par seconde;
(c) le total des valeurs quotidiennes du débit des sédiments, exprimées en tonnes par jour, pour le mois entier;
(d) le débit moyen des sédiments en tonnes par jour.

L'extrait annuel ou périodique donne:

(a) le débit total des sédiments en suspension, en tonnes;
(b) la concentration moyenne des sédiments en suspension, en mg/L, calculée en divisant le débit total des sédiments en suspension par le débit total du cours d'eau;
(c) les concentrations quotidiennes maximale et minimale, en mg/L;
(d) le débit moyen des sédiments en suspension, en tonnes par jour;
(e) les débits quotidiens maximal et minimal, en tonnes par jour.

3. Des renseignements descriptifs sur les stations de jaugeage sont également présentés sous le tableau des sédiments en suspension quotidiens et apportent les précisions qui suivent.

International Gauging Stations – on waters adjacent to the international boundary, certain gauging stations have been designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

Type of Gauge – refers to the installation or method used to obtain water level or discharge data:

(a) Manual – a non recording type of gauge from which observations of stage normally are obtained once daily.

(b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.

Location – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located an appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

Drainage Area – this is the latest available drainage area and refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station.

Natural Flow or *Regulated Flow* – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

Contributed Data – if data were supplied in their entirety or partially by an outside agency, the name of this co-operating agency is given.

Remarks – contains a statement pertaining to the sediment sample collection.

4. *The Table of Particle-size Analysis of Suspended Sediment* is available for Depth and Point Integrating samples and gives the particle-size distribution, in per cent finer in millimetres, of the sampled suspended sediment in the cross-section.

5. *The Table of Particle-size Analysis of Bed Load* gives the average particle-size distribution, in per cent finer in millimetres, of the sampled bed load in the cross-section.

6. *The Table of Particle-size Analysis of Bed Material* gives the average particle-size distribution, in per cent finer in millimetres, of the sampled bed material in the cross-section.

Stations internationales de jaugeage (International Gauging Stations) – Dans des eaux contiguës aux frontières, on a désigné certaines stations comme «internationales», et les données prélevées sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publication et les *United States Water Supply Papers* proviennent de variantes dans les techniques de traitement automatique des données.

Type de jauge (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau et le débit d'un cours d'eau.

(a) Manuelle (Manual) – indique qu'un appareil non enregistreur sert à obtenir une fois par jour les données sur le niveau et le débit d'un cours d'eau.

(b) Enregistreuse (Recording) – indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux tracé sur une carte analogique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.

Emplacement (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'équipement de mesure est situé à un endroit éloigné de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

Superficie du bassin versant (Drainage Area) – Il s'agit de la superficié du bassin versant déterminée d'après les cartes les plus récentes et désigne la zone délimitée par une ligne de partage des eaux de sorte que l'écoulement d'averse est entrainé par gravité vers le cours d'eau en amont de la station.

Débit naturel ou *régularisé* (Natural Flow or Regulated Flow) – Un débit reconnu comme naturel est indiqué comme tel. Le débit de plusieurs réseaux hydrographiques est modifié par une régularisation qui est effectuée en amont. Il arrive parfois que l'importance de cette régularisation ne soit pas connue, et elle n'est donc pas indiquée. Cependant, quand on sait que la régularisation est d'une certaine importance, on l'indique ainsi que l'année où elle a débuté (si elle est connue).

Données fournies (Contributed Data) – Nom de l'organisme extérieur qui a fourni toutes les données ou une partie des données.

Remarques (Remarks) – Renseignements sur le prélèvement des échantillons de sédiments.

4. *Le tableau de la granulométrie des sédiments en suspension* (The Table of Particle-Size Analysis of Suspended Sediment) dans une section transversale a été dressé pour les échantillons intégrés et ponctuels et donne le pourcentage des particules, dont la taille est inférieure à la taille indiquée en millimètres.

5. *Le tableau de la granulométrie du charriage de fond* (The Table of Particle-Size Analysis of Bed Load) donne le pourcentage moyen des particules de charriage de fond dans une section transversale, particules dont la taille est inférieure à la taille indiquée en millimètres.

6. *Le tableau de la granulométrie des matériaux de fond* (The Table of Particle-Size Analysis of Bed Material) dans une section transversale donne le pourcentage moyen des particules sédimentaires dont la taille est inférieure à la taille indiquée en millimètres.

REVISIONS

A number of corrections or revisions have been made to previously published streamflow and suspended sediment discharge data. Many of these were required because of typographical or computational errors which were exposed when daily discharges were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data.

Revisions to daily discharges are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

MICROFICHE

All published daily discharge, water level and sediment data are available in metric units on microfiche, upon request. The data are stored in station number order by Region, therefore data for a particular province may include fiche from two or more Regions. There are 270 frames per microfiche at 48X reduction; there is a visible heading showing the fiche number, type of data, Region, beginning and ending station number and year of data, and the month/year the fiche was created. The last frame is an index of the contents of that fiche.

RÉVISIONS

On a corrigé ou révisé beaucoup de données déjà publiées sur le débit de cours d'eau et de sédiments en suspension. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calculs lorsqu'on a enregistré les débits quotidiens sur rubans magnétiques et qu'on a recalculé à l'aide d'ordinateurs les moyennes mensuelles. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de données de base au cours de la révision rétrospective systématique des données de débit.

Les corrections apportées aux débits quotidiens ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont identifiées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données sur les moyennes mensuelles et annuelles des débits et sur les extrêmes annuels des débits qu'on a révisées. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

MICROFICHE

Toutes les données publiées concernant les débits quotidiens, les niveaux d'eau et les sédiments sont disponibles sur microfiche en unités métriques aux usagers qui en font la demande. Ces données sont emmagasinées par ordre de numéro de station et par région. Les données relatives à une province en particulier peuvent donc inclure des fiches en provenance de deux régions ou plus. Chaque microfiche renferme 270 pages réduites de 48X. L'en-tête indique le numéro de la fiche, le genre de données, la région, le numéro de la première et de la dernière station, celui de la première et de la dernière année de cueillette ainsi que le mois et l'année de préparation de la fiche. La dernière image donne l'index du contenu de la fiche.

CONVERSION FACTORS

The following list of convenient equivalents of measure gives the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 5280 feet
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 640 acres

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 0.160 54 cubic foot
1 imperial gallon equals 4.546 09 L (litres)
1 U.S. gallon equals 0.133 68 cubic foot
1 imperial gallon equals 1.2010 U.S. gallons

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit – 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

FACTEURS DE CONVERSION

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre vaut 5280 pieds
1 mille terrestre équivaut à 1.6093 km (kilomètre)

1 cm (centimètre) équivaut à 0.393 70 pouce
1 m (mètre) équivaut à 3.2808 pieds
1 km (kilomètre) équivaut à 0.621 37 mille

1 acre équivaut à 43 560 pieds carrés
1 acre équivaut à 0.404 69 ha (hectare)
1 mille carré équivaut à 2.5900 km^2 (kilomètres carrés)
1 mille carré vaut 640 acres

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) équivaut à 2.4710 acres
1 km^2 (kilomètre carré) équivaut à 0.386 10 mille carré

1 pied cube équivaut à 6.2288 gallons impérials
1 gallon impérial équivaut à 0.160 54 pied cube
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon américain équivaut à 0.133 68 pied cube
1 gallon impérial équivaut à 1.2010 gallon américain

1 pied cube par seconde pendant un jour équivaut à 1.9835 acre-pied
1 pied cube par seconde pendant un jour équivaut à un volume d'un mille carré par 0.037 19 pouce
1 acre-pied équivaut à 1.2335 dam^3 (décamètres cubes)

1 pied par seconde équivaut à 0.6818 mille par heure
1 mille par heure équivaut à 1.467 pied par seconde

1 pied cube par seconde équivaut à 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) équivaut à 35.315 pieds cubes par seconde

1 livre équivaut à 0.453 59 kg (kilogramme)
1 kg (kilogramme) équivaut à 2.2046 livres

1 tonne courte (2000 livres) équivaut à 0.907 18 t (tonne)
1 t (tonne) équivaut à 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit – 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

ALBERTA

ATHABASCA RIVER AT EMBARRAS AIRPORT - STATION NO. 07BD001

SUSPENDED SEDIMENT FOR 1982

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1						1 300 B	300	33 700	15.0	1 120	119 S	11 500	1
2						1 290 B	290	32 300		1 150	117	11 600	2
3						1 280 B	280	31 000	16.0	1 150	128 S	12 700	3
4						1 250 E	270	29 200		1 090	206	19 400	4
5						1 300 E	290	32 600	16.0	1 050	261 S	23 700	5
6													
7						1 340 E	300	34 700		1 000	194	16 800	6
8						1 370 E	300	35 500	16.0	963	122 S	10 200	7
9						1 370 E	280	33 100		956	244	28 400	8
10						1 360 E	260	30 600	16.0	1 010	540 S	47 100	9
						1 350 E	250	29 200		1 070	357	33 000	10
11													
12						1 340 E	240	27 800	16.0	1 110	158 S	15 200	11
13						1 310 E	230	26 000		1 150	132	13 100	12
14						1 240 E	220	23 600	16.0	1 160	144 S	14 400	13
15						1 200 E	210	21 800		1 100	167	15 900	14
						1 150 E	205	20 400	16.0	1 010	189 S	16 500	15
16													
17						1 120 E	200	19 400					
18						1 130 E	205	20 000	16.0	952	208	17 100	16
19						1 150 E	210	20 900		939	221 S	17 900	17
20						1 160 E	215	21 500		993	220	18 900	18
					12.0	1 190 A	219 S	22 500	17.0	1 070	218 S	20 200	19
21										1 160	228	22 900	20
22						1 270	216	23 700	17.0	1 240	244 S	26 100	21
23					13.0	1 290	213 S	23 700		1 300	279	31 300	22
24						1 320	210	24 000	18.0	1 280	297 S	32 800	23
25					13.0	1 350	204 S	23 800		1 210	305	31 900	24
						1 410	211	25 700	18.0	1 150	302 S	30 000	25
26													
27					14.0	1 380	217 S	25 900					
28						1 300	221	24 800	18.0	1 120	297	28 700	26
29					14.0	1 230	211 S	22 400		1 130	302 S	29 500	27
30						1 190	155	15 900	18.0	1 150	386	38 400	28
31					15.0	1 180	120 S	12 200		1 180	459 S	46 800	29
						1 140	118	11 600		1 170	629	43 400	30
													31
TOTAL						39 260		779 500		33 133		725 400	TOTAL
MEAN						1 270		25 100		1 100		24 200	MEAN

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	18.0	1 090	405 S	38 100	18.0	1 470	149 S	18 900		871	72	5 420	1
2		1 020	399	35 200		1 360	142	16 700	14.0	877	95 S	7 200	2
3	18.0	962	314 S	26 100	18.0	1 290	143 S	15 900		900	168	13 100	3
4		982	228	19 300		1 250	194	21 000	13.0	919	239 S	18 200	4
5	18.0	1 130	331 S	32 300	17.0	1 200	261 S	27 100		936	149	12 000	5
6		1 150	645	64 100									
7	18.0	1 110	912 S	87 500		1 210	340	35 500	13.0	938	85 S	6 890	6
8	18.0	1 180	1 010 S	103 000	17.0	1 400	270 S	32 700		911	84	6 610	7
9	18.0	2 020	2 770 S	483 000		1 800	154	24 000	12.0	881	84 S	6 390	8
10	18.0	2 780	2 520 S	605 000	17.0	1 880	96 S	15 600		851	82	6 030	9
						1 770	100	15 300	11.0	835	80 S	5 770	10
11	18.0	3 210	1 900 S	527 000	17.0	1 580	101 S	13 800					
12	18.0	3 080	1 850 S	492 000		1 410	103	12 500		869	77	5 780	11
13	18.0	2 770	1 410 S	337 000	16.0	1 280	104 S	11 500	10.0	985	74 S	6 300	12
14	18.0	2 520	1 180 S	257 000		1 180	98	9 990		1 050	76	6 890	13
15	19.0	2 400	796 S	165 000	16.0	1 130	117 S	11 400	10.0	1 010	78 S	6 810	14
										967	80	6 680	15
16	19.0	2 200	860 S	163 000		1 090	289	27 200	10.0	969	86 S	7 200	16
17	20.0	1 970	746 S	127 000	17.0	1 080	463 S	43 200		1 040	96	8 630	17
18	20.0	1 790	748 S	116 000		1 080	509	47 500	12.0	1 030	103 S	9 170	18
19	20.0	1 780	444 S	68 300	17.0	1 060	489 S	44 800		968	101	8 450	19
20	20.0	2 430	505 S	106 000		1 000	437	37 800	12.0	901	87 S	6 770	20
21	20.0	2 700	760 S	177 000	17.0	963	384 S	32 000					
22	19.0	2 590	712 S	159 000		958	381	31 500		852	60	4 420	21
23		2 380	435	89 400	17.0	965	390 S	32 500	12.0	826	36 S	2 570	22
24	19.0	2 200	293 S	55 700		965	309	25 800		808	35	2 440	23
25		2 100	284	51 500	16.0	932	190 S	15 300	12.0	787	39 S	2 650	24
										763	38	2 510	25
26	18.0	2 100	262 S	47 500		909	99	7 780	12.0	738	36 S	2 300	26
27		2 090	208	37 600	16.0	884	57 S	4 350		719	38	2 360	27
28	18.0	2 000	158 S	27 300		870	59	4 430	11.0	706	40 S	2 440	28
29		1 840	157	25 000	15.0	867	62 S	4 640		690	41	2 440	29
30	18.0	1 690	157 S	22 900		871	57	4 290	10.0	677	41 S	2 400	30
31		1 560	154	20 800	15.0	870	57 S	4 280					31
TOTAL		60 824		4 565 600		36 574		649 260		26 274		186 830	TOTAL
MEAN		1 960		147 000		1 180		20 900		876		6 230	MEAN

ALBERTA

ATHABASCA RIVER AT EMBARRAS AIRPORT - STATION NO. 07DD001

SUSPENDED SEDIMENT FOR 1982

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		667	40	2 310									1
2	9.0	670	39 S	2 260									2
3		664	39	2 240									3
4	9.0	671	40 S	2 320									4
5		708	42	2 570									5
6	8.0	761	41 S	2 700									6
7		785	39	2 650									7
8	8.0	773	39 S	2 600									8
9		756	42	2 740									9
10	8.0	749	41 S	2 650									10
11		777	36	2 420									11
12	8.0	781	34 S	2 290									12
13		747	31	2 000									13
14	7.0	733	30 S	1 900									14
15		713	30	1 850									15
16	6.0	696	30 S	1 800									16
17		686	30	1 780									17
18	5.0	662	29 S	1 660									18
19		648	25	1 400									19
20	5.0	643	21 S	1 170									20
21		639	20	1 100									21
22	4.0	623	21 S	1 130									22
23		619	21	1 120									23
24	4.0	630	23 S	1 250									24
25		634	24	1 310									25
26	3.0	632	24 S	1 310									26
27		623	23	1 240									27
28	2.0	604	22 S	1 150									28
29		600 A	23	1 190									29
30	1.6	580 E	22 S	1 100									30
31		570 E	15	739									31
TOTAL		21 044		55 949									TOTAL
MEAN		679		1 800									MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 12 18 N
LONG 111 23 24 W
DRAINAGE AREA 155 000 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ATHABASCA RIVER AT EMBARRAS AIRPORT - STATION NO. 07DD001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	METHOD OF ANALYSIS
JUL 12	09:00	3 080 M	18.0	1 940 K	23	29	44	59	72	88	97	99	100			BNW
JUL 16	09:00	2 200 M	19.0	894 K	24	28	41	52	64	76	92	98	100			BNW
JUL 20	09:00	2 430 M	20.0	445 K	29	35	55	74	90	97	98	99	100			BNW

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ALBERTA

ATHABASCA RIVER AT MCMURRAY - STATION NO. 07CC002

SUSPENDED SEDIMENT FOR 1982

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1													
2									19.0		320 S		1
3											311		2
4									19.0		309 S		3
5											305		4
									22.0		300 S		5
6													
7											369		6
8									17.5		550 S		7
9											525		8
10									18.0		509 S		9
											512		10
11													
12									19.0		521 S		11
13											450		12
14									18.0		313 S		13
15											309		14
									18.0		317 S		15
16													
17											270		16
18									18.0		163 S		17
19											178		18
20											200		19
											222		20
21													
22											244		21
23											266		22
24											288		23
25									20.0		310 S		24
											326		25
26													
27											333		26
28											333		27
29									18.0		327 S		28
30							557 S				299		29
31							521				260		30
							396						31
TOTAL MEAN													TOTAL MEAN

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	18.0		257 S				307						
2			259				285		18.0		52 S		1
3			327				282				53		2
4			412				275				53		3
5			418				323				53		4
											51		5
6	18.0		439 S				538						
7	21.0		954 S				782				50		6
8	22.0		2 980 S				557				51		7
9	22.0		2 410 S				380				55		8
10			1 570		20.0		302 S				64		9
									14.0		79 S		10
11			1 360				238						
12	20.0		1 280 S				180				91		11
13	22.0		1 110 S				143				92		12
14	20.0		920 S				121				88		13
15			748		18.0		110 S				90		14
											101		15
16	21.0		644 S				108						
17			622				106				108		16
18			773		18.0		92 S				107		17
19			1 170				69				106		18
20	20.0		1 230 S				70		14.0		104 S		19
											103		20
21	19.0		833 S		19.0		85 S						
22			645				84		14.0		101 S		21
23			539				77				100		22
24			471		16.0		68 S				98		23
25	19.0		425 S				64				97		24
											95		25
26	19.0		358 S				61						
27			344				58				94		26
28			341				55				92		27
29			334				53				91		28
30			333				52				89		29
31			325				52				88		30
													31
TOTAL MEAN													TOTAL MEAN

TYPE OF GAUGE - MANUAL
LOCATION - LAT 56 44 00 N
LONG 111 22 30 W
DRAINAGE AREA 99 700 km^2
NATURAL FLOW

S - SAMPLE(S) COLLECTED THIS DAY

REMARKS - RECORDS PRIOR TO 1973 PUBLISHED UNDER 07DA001

ATHABASCA RIVER AT MCMURRAY - STATION NO. 07CC002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUL 08	17:30	2 860 H	22.0	3 710 K	14	19	29	43	58	73	88	96	99	99		BNW
JUL 21	16:15	2 420 H	19.0	771 K	18	24	36	52	68	82	91	96	99	99		BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ALBERTA

CABIN CREEK NEAR SEEBE - STATION NO. 05BF019

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.002											1
2		0.002											2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1										0.082	20	0.14	1
2										0.097	19	0.16	2
3										0.109	20	0.19	3
4										0.104	20	0.18	4
5										0.122	20	0.21	5
6										0.093	21	0.17	6
7										0.076	22	0.14	7
8										0.068	27	0.16	8
9									1.5	0.107	39 S	0.36	9
10										0.127	41	0.45	10
11										0.152	26	0.34	11
12									2.0	0.158	20 S	0.27	12
13										0.156	15	0.20	13
14						0.011 B			3.0	0.148	11 S	0.14	14
15									2.5	0.140	6 S	0.07	15
16									2.5	0.146	5 S	0.06	16
17										0.135	4	0.05	17
18										0.125	4	0.04	18
19									3.0	0.117	3 S	0.03	19
20									3.5	0.106	3 S	0.03	20
21						0.059				0.098	3	0.03	21
22						0.077				0.089	2	0.02	22
23						0.065			3.0	0.084	1 S	0.01	23
24						0.081			3.0	0.076	2 S	0.01	24
25						0.091				0.071	2	0.01	25
26						0.056				0.067	2	0.01	26
27						0.042				0.072	1	0.01	27
28						0.040			4.0	0.067	1 S	0.01	28
29						0.038				0.063	3	0.02	29
30						0.040				0.062	6	0.03	30
31						0.057							31
TOTAL										3.117		3.55	TOTAL
MEAN										0.104		0.12	MEAN

ALBERTA

CABIN CREEK NEAR SEEBE - STATION NO. 05BF019

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.058	9	0.05		0.021	26	0.05		0.011	35	0.03	1
2		0.055	12	0.06		0.021	26	0.05		0.011	34	0.03	2
3		0.052	15	0.07	6.5	0.020	26 S	0.04		0.011	34	0.03	3
4		0.051	19	0.08		0.019	25	0.04		0.013	39	0.04	4
5		0.051	24	0.11		0.019	24	0.04		0.012	38	0.04	5
6	5.0	0.048	27 S	0.11		0.018	21	0.03		0.011	36	0.03	6
7		0.046	26	0.10		0.018	18	0.03		0.011	37	0.04	7
8		0.043	23	0.09		0.017	16	0.02		0.010	40	0.03	8
9		0.042	21	0.08		0.017	13	0.02		0.010	42	0.04	9
10		0.040	19	0.07		0.016	10	0.01		0.011	45	0.04	10
11		0.037	16	0.05	6.5	0.016	6 S	0.01	4.5	0.011	48 S	0.05	11
12		0.036	14	0.04		0.016	6	0.01		0.010	47	0.04	12
13	5.0	0.034	12 S	0.04		0.016	9	0.01		0.011	47	0.04	13
14		0.033	12	0.03		0.016	13	0.02		0.010	46	0.04	14
15		0.033	11	0.03		0.015	17	0.02		0.010	45	0.04	15
16		0.032	11	0.03		0.014	22	0.03		0.011			16
17		0.031	10	0.03	7.5	0.014	28 S	0.03		0.010			17
18		0.030	10	0.03		0.013	32	0.04		0.010			18
19		0.029	11	0.03		0.013	34	0.04		0.010			19
20	6.0	0.034	27 S	0.08		0.013	35	0.04		0.010			20
21		0.030	21	0.05		0.013	34	0.04		0.010			21
22		0.030	21	0.05		0.012	34	0.04		0.010			22
23		0.027	22	0.05		0.012	34	0.04		0.009			23
24		0.026	22	0.05		0.012	35	0.04		0.009			24
25		0.026	22	0.05	6.0	0.012	35 S	0.04		0.009			25
26		0.025	23	0.05		0.014	34	0.04		0.011			26
27	5.0	0.024	24 S	0.05		0.013	34	0.04		0.010			27
28		0.023	25	0.05		0.012	34	0.04		0.010			28
29		0.022	25	0.05		0.012	34	0.04		0.010			29
30		0.022	25	0.05		0.012	35	0.04		0.010			30
31		0.022	25	0.05		0.011	34	0.03					31
TOTAL		1.092		1.76		0.467		1.01		0.312			TOTAL
MEAN		0.035		0.06		0.015		0.03		0.010			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.011				0.007				0.005			1
2		0.011				0.007				0.005			2
3		0.011				0.007				0.005			3
4		0.010				0.007				0.005			4
5		0.010				0.007				0.005 E			5
6		0.010				0.007				0.005 E			6
7		0.010				0.007				0.005 E			7
8		0.010				0.008				0.005 E			8
9		0.009				0.008				0.004 E			9
10		0.009				0.010				0.004 E			10
11		0.009				0.008				0.004 E			11
12		0.009				0.007				0.004 E			12
13		0.009				0.006				0.004			13
14		0.009				0.006				0.004			14
15		0.009				0.006				0.004			15
16		0.009				0.006				0.005			16
17		0.009				0.005				0.005			17
18		0.009				0.005				0.005			18
19		0.009				0.005 E				0.005			19
20		0.008				0.005 E				0.005			20
21		0.008				0.005 E				0.005			21
22		0.009				0.005 E				0.005			22
23		0.009				0.005 E				0.005			23
24		0.008				0.005 E				0.005			24
25		0.008				0.005				0.005			25
26		0.008				0.005				0.005			26
27		0.008				0.005				0.005			27
28		0.008				0.005				0.005			28
29		0.007				0.005				0.004			29
30		0.007				0.005				0.004			30
31		0.007								0.003			31
TOTAL		0.277				0.184				0.144			TOTAL
MEAN		0.009				0.006				0.005			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 33 N
LONG 115 10 00 W
DRAINAGE AREA 2.12 km^2
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

CLEARWATER RIVER AT DRAPER - STATION NO. 07CD001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		42.0 B				32.5 B				28.6 B			1
2		42.0 B				32.0 B				28.2 B			2
3		41.5 B				32.0 B				27.8 B			3
4		41.0 B				31.5 B				28.0 B			4
5		40.5 B				31.5 B				28.0 B			5
6		40.5 B				31.5 B				28.0 B			6
7		40.0 B				31.5 B				27.8 B			7
8		40.0 B				31.5 B				27.7 B			8
9		40.0 B				31.0 B				27.9 B			9
10		40.0 B				31.0 B				27.9 B			10
11		39.7 B				31.0 B				28.0 B			11
12		39.5 B				31.0 B				27.7 B			12
13		39.5 B				30.5 B				27.6 B			13
14		39.0 B				30.0 B				28.1 B			14
15		39.0 B				29.2 B				28.1 B			15
16		39.0 B				28.0 B				28.3 B			16
17		38.5 B				27.5 B				28.[illegible] B			17
18		38.0 B				27.0 B				28.9 B			18
19		37.5 B				26.2 B				29.6 B			19
20		37.0 B				26.4 B				30.2 B			20
21		36.5 B				26.3 B				30.2 B			21
22		36.0 B				26.2 B				30.5 B			22
23		35.5 B				26.4 B				30.8 B			23
24		35.0 B				26.8 B				31.3 B			24
25		35.0 B				27.5 B				31.6 B			25
26		34.5 B				27.8 B				32.0 B			26
27		34.0 B				28.3 B				33.2 B			27
28		33.5 B				28.4 B				33.5 B			28
29		33.5 B								34.1 B			29
30		33.0 B								34.5 B			30
31		32.5 B								34.8 B			31
TOTAL		1 173.2				820.5				921.5			TOTAL
MEAN		37.8				29.3				29.7			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		35.4 B				314			18.0	187	44 S	711	1
2		35.8 B				360				181	43	672	2
3		35.9 B				345				175	41	620	3
4		36.1 B				348				171	39	576	4
5		37.6 B				345				167	37	534	5
6		38.1 B				321				161	34	473	6
7		38.5 B				300				158	31	423	7
8		39.5 B				290				154	28	373	8
9		39.7 B				278			19.0	151	25 S	326	9
10		40.3 B				266				148	23	294	10
11		40.8 B				263			17.0	146	22 S	278	11
12		41.4 B				259				143	20	247	12
13		41.8 B				255			18.0	141	19 S	231	13
14		42.7 B				248				138	19	227	14
15		43.9 B				242			18.0	135	22 S	257	15
16		43.7 B				236				131	28	317	16
17		43.6 B				229			19.0	129	36 S	401	17
18		42.8 B				223				126	36	392	18
19		43.2 B				217				123	32	340	19
20		44.0 B				212				120	27	280	20
21		45.1 B				206				118	22	224	21
22		50.8 B				202				114	19	187	22
23		57.4 B				199				111	17	163	23
24		73.4 B				197			18.0	108	16 S	149	24
25		94.4 B				195				105	19	172	25
26		129 B				193			17.0	103	21 S	187	26
27		194 B				192				100	21	181	27
28		230 B				194			18.0	98.3	19 S	161	28
29		254 B				195				95.7	17	141	29
30		270 B				194				93.2	16	129	30
31						191							31
TOTAL		2 302.9				7 709				4 031.2		9 666	TOTAL
MEAN		73.4				249				134		322	MEAN

ALBERTA

CLEARWATER RIVER AT DRAPER - STATION NO. 07CD001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	18.0	91.9	16 S	127		116	30	301	18.0	102	30 S	264	1
2		89.6	17	132		115	23	229		100	23 S	199	2
3		90.8	19	149		113	21	205		99.5	18	155	3
4		92.6	20	160		115	23	229		98.1	16	136	4
5		96.1	24	199		124	27	280		96.0	13	108	5
6	19.0	102	25 S	220		127	33	362		93.7	13	105	6
7	22.0	104	23 S	207		133	39	448		92.4	14	112	7
8	22.0	105	14 S	127	18.0	135	41 S	478		90.4	15	117	8
9	23.0	105	9 S	81.6		135	44	513		89.5	14	108	9
10	20.0	103	10 S	89.0		137	48	568	18.0	93.1	14 S	113	10
11		98.9	18	120		139	49	588	18.0	95.5	17 S	140	11
12	20.0	96.6	17 S	142		137	50	592		97.8	19	161	12
13	22.0	97.9	19	161		134	49	567		100	20	173	13
14	19.0	97.4	20 S	168		130	49	550	17.0	102	21 S	185	14
15		95.5	21	173	15.0	128	47 S	520		103	22	196	15
16	20.0	94.4	19 S	155		125	40	432		103	22	196	16
17		92.4	12	95.8	17.0	122	30 S	316		102	22	194	17
18		90.7	7	54.9		122	26	274		102	24	212	18
19		90.9	4	31.4		120	25	259		100	27	233	19
20	20.0	93.0	5 S	40.2		117	24	243	11.0	98.6	29 S	247	20
21	21.0	95.4	12 S	98.9	20.0	114	23 S	227	13.0	96.7	24 S	201	21
22		98.7	21	179		112	22	213		95.2	21	173	22
23	21.0	104	30 S	270		109	21	198		93.3	21	169	23
24	19.0	107	24 S	222	12.0	107	21 S	194		92.0	20	159	24
25		114	18	177		105	22	200		90.5	20	156	25
26		119	22	226		102	26	229		89.5	20	155	26
27		121	29	303		101	30	262		88.2	19	145	27
28		122	30	316		101	35	305		87.7	20	152	28
29		123	32	340	13.0	101	39 S	340		86.7	20	150	29
30		122	33	348		101	40	349		85.8	20	148	30
31		119	34	350		101	36	314					31
TOTAL		3 172.8		5 462.8		3 674		10 785		2 864.2		4 962	TOTAL
MEAN		102		176		119		348		95.5		165	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		85.6				68.[illegible]				50.0 B			1
2		84.5				67.0				50.0 B			2
3		83.4				66.0 B				49.0 B			3
4		83.0				65.0 B				49.0 B			4
5		82.4				64.0 B				48.0 B			5
6		81.5				63.0 B				48.0 B			6
7		80.8				63.0 B				48.0 B			7
8		80.5				62.0 B				47.0 B			8
9		79.8				61.0 B				47.0 B			9
10		79.0				61.0 B							10
11		78.5				60.0 B				47.0 B			11
12		79.0				60.0 B				47.0 B			12
13		78.4				59.0 B				47.0 B			13
14		78.7				59.0 B				47.0 B			14
15		78.4				58.0 B				47.0 B			15
16		78.0				58.0 B				47.0 B			16
17		79.2				57.0 B				47.4 B			17
18		79.3				57.0 B				47.5 B			18
19		79.5				56.0 B				46.3 B			19
20		79.2				55.0 B				46.4 B			20
21		77.2				55.0 B				45.4 B			21
22		77.5				54.0 B				44.3 B			22
23		78.2				53.0 B				42.7 B			23
24		78.6				52.0 B				43.2 B			24
25		78.7				51.0 B				41.7 B			25
26		78.3				51.0 B				41.8 B			26
27		79.1				51.0 B				42.2 B			27
28		79.4				50.0 B				41.9 B			28
29		76.9				50.0 B				41.7 B			29
30		73.0				50.0 B				42.8 B			30
31		71.9								43.0 B			31
TOTAL		2 457.3				1 736.4				1 423.3			TOTAL
MEAN		79.3				57.9				45.9			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 40 50 N
LONG 111 15 00 W
DRAINAGE AREA 30 800 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

DEERLICK CREEK NEAR HINTON - STATION NO. 07AF004

SUSPENDED SEDIMENT FOR 1982

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.003 B	1	0		0.272 B	11	0.26	2.0	0.361	18 S	0.48	1
2		0.003 B	1	0		0.290 B	17	0.43	2.7	0.383	16 S	0.53	2
3		0.003 B	1	0		0.260 B	12	0.27	2.0	0.278	16 S	0.38	3
4		0.003 B	1	0		0.240 B	8 S	0.17	0.8	0.222	14 S	0.27	4
5		0.003 B	1	0	0.1	0.299 B	22 S	0.57	1.2	0.853	78 S	3.05	5
				0	0.1								
6		0.005 B	1	0		0.215 B	21 S	0.39	0.3	0.596	28 S	1.88	6
7		0.005 B	1	0		0.222 B	26	0.50	0.5	0.488	16 S	0.67	7
8		0.005 B	1	0		0.250 B	33	0.71		0.614	40	2.12	8
9		0.005 B	1	0		0.290 B	42	1.05		0.936	45	3.66	9
10		0.005 B	1	0		0.365 B	42	1.32		0.678	17	1.00	10
11		0.005 B	1	0	0.1	0.508 B	40 S	1.76		0.598	12	0.62	11
12		0.005 B	1	0		0.406 B	34	1.19		0.401	11	0.38	12
13		0.005 B	1	0	0.1	0.366 B	20 S	0.63		0.375	11	0.36	13
14		0.005 B	1	0		0.339 B	17	0.50	6.4	0.345	11 S	0.33	14
15		0.005 B	1	0	0.1	0.334 B	12 S	0.35		0.318	13	0.36	15
16		0.005 B	1	0	0.1	0.352 B	14 S	0.43		0.282	16	0.39	16
17		0.005 B	1	0	0.1	0.345 B	12 S	0.36	6.8	0.247	17 S	0.36	17
18		0.005 B	1	0	0.4	0.321 B	9 S	0.25		0.218	17	0.32	18
19		0.012 B	1	0		0.280 B	10	0.24		0.199	16	0.28	19
20		0.020 B	2	0	0.2	0.243	11 S	0.23		0.186	15	0.24	20
21		0.200 B	8	0.18		0.235	11	0.22	6.1	0.173	14 S	0.21	21
22		0.310 B	12	0.32		0.226	10	0.20		0.178	13	0.20	22
23		0.335 B	13	0.38	0.5	0.216	10 S	0.19		0.165	9	0.13	23
24		0.332 B	13	0.37		0.215	10	0.19	5.4	0.156	8 S	0.05	24
25		0.325 B	12	0.34		0.218	11	0.21		0.154	4	0.05	25
26		0.314 B	12	0.33		0.260	30	0.67	5.2	0.162	3 S	0.04	26
27		0.298 B	11	0.28	1.1	0.506	78 S	3.24		0.217	4	0.07	27
28		0.285 B	10	0.25	0.8	0.473 A	39 S	1.59	4.8	0.364	10 S	0.31	28
29		0.268 B	9	0.21	1.8	0.616	33 S	1.76		0.273	4	0.09	29
30		0.262 B	8	0.18	3.0	0.572	30 S	1.48		0.246	4	0.09	30
31					2.5	0.425	16 S	0.59					31
TOTAL		3.041		2.80		10.159		21.95		10.216		18.42	TOTAL
MEAN		0.101		0.09		0.327		0.71		0.340		0.61	MEAN

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	6.8	0.225	3 S	0.06		0.314	19	0.52	8.3	0.230	1 S	0.02	1
2		0.230	3	0.06		0.269	9	0.21		0.211	1	0.02	2
3	6.2	0.569	70 S	3.44		0.227	8	0.16		0.198	1	0.02	3
4	5.1	3.13	1 090 S	295		0.198	7	0.12		0.332	11	0.32	4
5	4.9	3.62	368 S	115		0.177	6	0.09		0.312	6	0.16	5
6	5.0	1.98	85 S	14.5		0.161	5	0.07		0.254	3	0.07	6
7		1.46	53	6.69		0.150	5	0.06		0.230	2	0.04	7
8		1.08	33	3.08	9.0	0.142	5 S	0.06	8.2	0.216	1 S	0.02	8
9	4.2	0.819	22 S	1.56	11.5	0.233	427 S	8.60		0.207	1	0.02	9
10		0.643	17	0.94	9.7	0.432	231 S	8.62		0.202	1	0.02	10
11		0.521	13	0.59		0.301	5	0.13		0.193	1	0.02	11
12	5.1	0.447	10 S	0.39		0.262	3	0.07		0.226	1	0.02	12
13		0.408	9	0.32	9.5	0.215	1 S	0.02		0.223	1	0.02	13
14	6.8	0.696	78 S	4.69	6.5	0.244	5 S	0.11	6.0	0.208	1 S	0.02	14
15	5.9	1.03	55 S	4.89		0.291	10	0.25		0.195	4	0.07	15
16		0.720	28	1.74	8.2	0.260	3 S	0.07	3.6	0.191	6 S	0.10	16
17		0.565	23	1.12		0.227	3	0.06		0.179	6	0.09	17
18	10.0	0.506	19 S	0.83		0.209	2	0.04		0.169	6	0.09	18
19		0.761	30	1.97		0.197	1	0.02		0.161	6	0.08	19
20		0.625	11	0.59	6.5	0.189	1 S	0.02		0.156	5	0.07	20
21		0.572	8	0.40		0.188	4	0.06		0.152	5 S	0.07	21
22		0.562	6	0.29		0.268	8	0.19	8.0	0.148 A	5 S	0.06	22
23	6.2	0.474	4 S	0.16		0.212	4	0.07		0.145 E	5	0.06	23
24		0.487	5	0.21		0.186	4	0.06		0.130 E	4	0.06	24
25		0.445	4	0.15		0.194	4	0.07		0.115 E		0.04	25
26		0.356	5	0.15	6.5	0.301	8 S	0.21		0.175 E	6	0.09	26
27		0.306	5	0.13		0.274	4	0.09		0.200 E	7	0.12	27
28		0.270	5	0.12		0.358	9	0.28		0.250 E	8	0.17	28
29	9.3	0.230	5 S	0.10		0.284	3	0.07	3.3	0.294 A	9 S	0.23	29
30		0.201	5	0.09		0.280	2	0.05		0.272	9	0.21	30
31	10.0	0.183	6 S	0.09		0.257	1	0.02					31
TOTAL		24.121		459.35		7.500		20.47		6.170		2.80	TOTAL
MEAN		0.778		14.8		0.242		0.66		0.206		0.08	MEAN

ALBERTA

DEERLICK CREEK NEAR HINTON - STATION NO. 07AF004

SUSPENDED SEDIMENT FOR 1982

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.273	9	0.21		0.102 B	5	0.04					1
2		0.384	21	0.70		0.096 B	5	0.04					2
3		0.544	18	0.85	0.1	0.101 B	5 E	0.04					3
4		0.478	10	0.41									4
5		0.420	10	0.36									5
6		0.390	10	0.34									6
7		0.368	9	0.29									7
8		0.331	8	0.23									8
9		0.313	8	0.22									9
10		0.325	8	0.22									10
11		0.356	9	0.28									11
12		0.335	10	0.29									12
13		0.330	10	0.28									13
14		0.313	9	0.24									14
15		0.293	8	0.20									15
16		0.277	6	0.14									16
17		0.261	6	0.14									17
18		0.233 B	5	0.10									18
19		0.207 B	5	0.09									19
20		0.196 B	5	0.08									20
21		0.188 B	5	0.08									21
22		0.181 B	5	0.08									22
23		0.201 B	5	0.09									23
24		0.164 B	5	0.07									24
25		0.147 B	5	0.06									25
26		0.137 B	5	0.06									26
27		0.122 B	5	0.05									27
28		0.115 B	5	0.05									28
29		0.115 B	5	0.05									29
30		0.103 B	5	0.04									30
31		0.112 B	5	0.05									31
TOTAL		8.212		6.36									TOTAL
MEAN		0.365		0.21									MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 1 090 ON JUL 04

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 295 ON JUL 04

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 20 N
LONG 117 14 36 W
DRAINAGE AREA 14.0 km^2
NATURAL FLOW

DRIFTPILE RIVER NEAR DRIFTPILE - STATION NO. 07BH003

SUSPENDED SEDIMENT FOR 1983

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0.063 B			1
2										0.066 B			2
3										0.072 B			3
4										0.078 B			4
5										0.086 B			5
6										0.094 B			6
7										0.099 B			7
8										0.106 B			8
9										0.109 B			9
10										0.115 B			10
11										0.114 B			11
12										0.112 B			12
13										0.111 B			13
14										0.113 B			14
15										0.114 B			15
16										0.113 B			16
17										0.117 B			17
18										0.121 B			18
19										0.127 B			19
20										0.134 B			20
21										0.139 B			21
22										0.142 B			22
23										0.147 B			23
24										0.147 B			24
25										0.152 B			25
26										0.160 B			26
27										0.167 B			27
28										0.175 B			28
29										0.181 B			29
30										0.195 B			30
31										0.211 B			31
TOTAL										3.880			TOTAL
MEAN										0.125			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.226 B				9.63 B			13.0	3.98 A	36 S	12.4	1
2		0.238 B				12.1 B				3.65	35	11.0	2
3		0.249 B				19.2 B				3.33	35	10.1	3
4		0.260 B				23.6				3.57	35	10.8	4
5		0.270 B				15.3				3.03	35	9.16	5
6		0.277 B				11.7				2.65	35	8.01	6
7		0.288 B				11.4				2.50	35	7.56	7
8		0.295 B				10.1				2.31	30	5.99	8
9		0.291 B				10.2				2.11	30	5.47	9
10		0.283 B				11.5				1.92	30	4.98	10
11		0.268 B				13.1 A				1.74	30	4.51	11
12		0.266 B				15.4 E				1.60	30	4.15	12
13		0.278 B				17.6 E				1.41	30	3.65	13
14		0.278 B			5.5	19.9 A	359 S	617		1.31	30	3.40	14
15		0.282 B				20.2	407	710		1.23	30	3.19	15
16		0.284 B				41.2	812	2 890		1.16	30	3.01	16
17		0.276 B				48.1	860	3 570		1.08	30	2.80	17
18		0.268 B			5.5	37.0	615 S	1 970		0.984	25	2.04	18
19		0.256 B				53.6	759	3 510		0.838	25	1.81	19
20		0.412 B			5.5	36.8	348 S	1 110		0.740	25	1.60	20
21		0.516 B				26.7	260	600		0.672	25	1.45	21
22		0.742 B				22.2	248	476		0.636	25	1.37	22
23		0.992 B			5.5	20.3	261 S	458		0.590	25	1.27	23
24		1.00 B				18.5 A	270	432		0.570	25	1.23	24
25		0.891 B				15.1 E	243	317		0.541	25	1.17	25
26		1.77 B			5.5	11.7 A	212 S	214		0.505	25	1.09	26
27		2.67 B				10.4 E	198	178		0.488	25	1.05	27
28		4.54 B				9.13 E	182	144		0.499	20	0.86	28
29		6.77 B				7.84 E	150	102		0.475	20	0.82	29
30		9.71 B				6.55 E	109	61.7		0.450	20	0.78	30
31						5.27 E	62	28.2					31
TOTAL		35.146				591.32				46.528		126.72	TOTAL
MEAN		1.17				19.1				1.55		4.22	MEAN

DRIFTPILE RIVER NEAR DRIFTPILE - STATION NO. 07BH003

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.450	20	0.78		2.29				1.96			1
2		0.454	20	0.78		34.5				1.82			2
3		0.546	22	1.04		83.8				1.50			3
4		1.44	82	10.2	10.0	111	2 010 S	19 300		1.27			4
5	15.0	20.2	429 S	749		64.4				1.15			5
6	17.0	22.4	514 S	995		31.5				1.11			6
7		11.9	290	298		19.5				1.09			7
8	18.0	6.93	250 S	150		12.4			10.0	1.07	6 S	0.55	8
9	19.0	5.18	74 S	33.1		8.80				1.17			9
10		4.89	63	26.6		6.52				1.67			10
11		3.29	37	10.5		5.22				1.39			11
12	22.0	2.22	16 S	3.07		5.06				1.32			12
13	23.0	1.53	11 S	1.45		4.36				1.35			13
14		1.17	12	1.21		3.46				1.37			14
15		14.2	335	411		3.00				1.23			15
16	13.0	53.4	973 S	4 490		3.31				1.10			16
17		28.2	554	1 350		4.39				1.02			17
18		15.6	216	291		3.54				0.956			18
19	16.0	9.85	98 S	83.4		2.71				0.882			19
20	18.0	7.54	51 S	33.2		2.25				0.884			20
21	15.0	6.34	39 S	21.4		1.88				0.755			21
22		7.96	88	60.5		1.64				0.709			22
23	15.0	13.0	79 S	88.7		1.70				0.676			23
24		13.9	92	110		1.66				0.643			24
25		12.5	88	95.0		1.64				0.618			25
26		12.8	135	149		1.83				0.591			26
27	16.5	9.71	88 S	73.8		1.89				0.572			27
28		6.58	50	28.4		1.80				0.577			28
29		4.95	37	15.8		1.66				0.604			29
30		3.69	33	10.5		1.60				0.689			30
31		2.75	33	7.84		1.58							31
TOTAL		385.570		9 600.27		430.90				31.986			TOTAL
MEAN		9.86		310		13.9				1.05			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.943	9	0.73									1
2		0.940	8	0.65									2
3		0.887	7	0.54									3
4		0.844	6	0.44									4
5	5.0	0.781	5 S	0.34									5
6	7.0	0.736	3 S	0.19									6
7		0.690	3	0.18									7
8		0.660	3	0.17									8
9		0.633	3	0.16									9
10		0.628	2	0.11									10
11	9.0	0.618	3 S	0.16									11
12		0.600	3	0.16									12
13	12.0	0.601	2 S	0.10									13
14		0.612	2	0.11									14
15	7.0	0.599	3 S	0.16									15
16		0.597	3	0.15									16
17	2.0	0.692	4 S	0.24									17
18		0.698	4	0.24									18
19		0.754	4	0.26									19
20	2.0	0.720	4 S	0.25									20
21		0.622	4	0.21									21
22		0.554	3	0.14									22
23	3.0	0.540	2 S	0.09									23
24		0.605	3	0.16									24
25	3.0	0.650 A	4 S	0.22									25
26	3.0	0.590 A	4 S	0.20									26
27		0.590 E	4	0.20									27
28		0.590 E	4	0.20									28
29		0.590 E	4	0.20									29
30		0.590 E	4	0.20									30
31		0.590 E	4	0.20									31
TOTAL		20.738		7.36									TOTAL
MEAN		0.669		0.24									MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 2 010 ON AUG 04

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 19 300 ON AUG 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 20 48 N
LONG 115 47 39 W
DRAINAGE AREA 840 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

DRIFTPILE RIVER NEAR DRIFTPILE - STATION NO. 07BH003

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 14	10:30	20.9		5.5	386	R	13	18	33	46	58	66	75	83	90	92		BHW
MAY 18	14:20	37.0	N	5.5	631	K	15	20	31	44	57	72	86	94	99	100		BHW
JUL 05	18:00	20.2	N	15.0	594	K	27	33	50	61	70	78	87	97	99	100		BHW
JUL 06	15:00	21.7		17.0	399	R	24	33	51	65	72	76	84	93	97	99		BHW
JUL 16	12:30	60.6		13.0	1 070	R	19	27	40	55	69	80	88	95	98	99		BHW
AUG 04	16:30	126		10.0	2 000	R	16	20	31	42	57	77	91	96	99	100		BHW

N - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ALBERTA

EUNICE CREEK NEAR NINTON - STATION NO. 07AF005

SUSPENDED SEDIMENT FOR 1982

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.002 B	1	0		0.118 B	4	0.04	2.6	0.200	4 S	0.07	1
2		0.002 B	1	0		0.118 B	4	0.04	3.8	0.178	4 S	0.06	2
3		0.002 B	1	0		0.104 B	5	0.04	2.6	0.169	14 S	0.20	3
4		0.002 B	1	0	0.1	0.103 B	6 S	0.05	1.5	0.156	19 S	0.26	4
5		0.002 B	1	0	0.1	0.150 B	6 S	0.08	1.5	0.290	34 S	0.85	5
6		0.002 B	1	0		0.090 B	7	0.05	0.1	0.307	23 S	0.61	6
7		0.003 B	1	0		0.085 B	8	0.06	0.1	0.324	27 S	0.76	7
8		0.003 B	1	0		0.095 B	9	0.07		0.433	39	1.46	8
9		0.003 B	1	0		0.240 B	9	0.19		0.616	56	2.98	9
10		0.003 B	1	0		0.330 B	10	0.29		0.429	33	1.22	10
11		0.003 B	1	0	0.1	0.315 B	11 S	0.30		0.363	28	0.88	11
12		0.004 B	1	0		0.330 B	8	0.23		0.309	24	0.64	12
13		0.004 B	1	0	0.1	0.270 B	6 S	0.18		0.273	21	0.50	13
14		0.004 B	1	0		0.268 B	7	0.16	6.2	0.241	18 S	0.37	14
15		0.004 B	1	0	0.1	0.265 B	7 S	0.16		0.217	17	0.32	15
16		0.004 B	1	0	0.1	0.250 B	5 S	0.11		0.191	15	0.25	16
17		0.005 B	1	0	0.1	0.245 B	6 S	0.13	6.4	0.172	13 S	0.19	17
18		0.006 B	1	0	0.3	0.240 B	5 S	0.10		0.162	13	0.18	18
19		0.007 B	1	0		0.200 B	4	0.07		0.154	13	0.17	19
20		0.020 B	2	0	0.1	0.155 B	4 S	0.05		0.151	12	0.16	20
21		0.055 B	3	0.01		0.150 B	5	0.06	5.4	0.145	11 S	0.14	21
22		0.100 B	4	0.03		0.155 B	7	0.09		0.148	9	0.12	22
23		0.145 B	5	0.06	0.1	0.165 B	9 S	0.13		0.146	6	0.08	23
24		0.150 B	5	0.06		0.220 B	9	0.17	4.7	0.140	5 S	0.06	24
25		0.140 B	5	0.06		0.270 B	10	0.23		0.135	5	0.06	25
26		0.130 B	5	0.06		0.320 B	10	0.28	5.4	0.131	5 S	0.06	26
27		0.115 B	4	0.04	0.5	0.407 B	45 S	1.58		0.164	10	0.14	27
28		0.112 B	4	0.04	0.9	0.394 A	23 S	0.78	4.9	0.331	31 S	0.89	28
29		0.110 B	4	0.04	3.3	0.361	19 S	0.59		0.215	9	0.17	29
30		0.112 B	4	0.04	2.9	0.305	12 S	0.32		0.190	7	0.11	30
31					1.9	0.242	8 S	0.17					31
TOTAL		1.254		0.44		6.960		6.76		7.080		13.96	TOTAL
MEAN		0.042		0.01		0.225		0.22		0.236		0.47	MEAN

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	4.5	0.183	6 S	0.09		0.420	43	1.56	6.5	0.231	5 S	0.10	1
2		0.190	6	0.10		0.358	28	0.87		0.207	5	0.09	2
3	5.1	0.488	67 S	2.82		0.312	26	0.70		0.195	4	0.07	3
4	4.0	2.19	662 S	125		0.268	25	0.58		0.307	9	0.24	4
5	4.5	3.03	293 S	76.7		0.239	23	0.47		0.285	6	0.15	5
6	8.0	1.87	117 S	18.9		0.219	21	0.40		0.232	5	0.10	6
7		1.38	96	11.4		0.204	19	0.33		0.210	5	0.09	7
8		0.966	79	6.59	5.1	0.196	18 S	0.30	6.1	0.196	4 S	0.07	8
9	5.2	0.729	64 S	4.03	7.4	0.364	96 S	3.02		0.188	4	0.06	9
10		0.592	56	2.86	7.0	0.607	97 S	5.09		0.180	3	0.05	10
11		0.500	50	2.16		0.377	13	0.42		0.174	3	0.05	11
12	4.8	0.438	45 S	1.70		0.327	11	0.31		0.207	3	0.05	12
13		0.394	44	1.50	6.5	0.278	11 S	0.26		0.196	3	0.05	13
14	5.5	0.616	148 S	7.88	4.8	0.337	11 S	0.32	3.6	0.176	3 S	0.05	14
15	4.8	0.941	121 S	9.84		0.384	9	0.30		0.172	4	0.06	15
16		0.698	42	2.53	6.0	0.346	6 S	0.18	2.4	0.165	5 S	0.07	16
17		0.592	29	1.48		0.302	5	0.13		0.156	5	0.07	17
18	7.3	0.534	22 S	1.02		0.271	5	0.12		0.149	4	0.05	18
19		0.683	103	6.08		0.255	4	0.09		0.146	4	0.05	19
20		0.582	33	1.66	4.9	0.245	4 S	0.08		0.142	4	0.05	20
21		0.558	20	0.96		0.243	5	0.10		0.138	4	0.05	21
22		0.586	15	0.76		0.321	6	0.17	5.2	0.134	4 S	0.05	22
23	4.0	0.507	11 S	0.48		0.239	4	0.08		0.130	4	0.04	23
24		0.478	12	0.50		0.206	4	0.07		0.126	4	0.04	24
25		0.423	14	0.51		0.213	4	0.07		0.124	4	0.04	25
26		0.375	17	0.55	4.9	0.283	8 S	0.20		0.182	9	0.14	26
27		0.337	20	0.58		0.251	5	0.11		0.173	5	0.07	27
28		0.308	23	0.61		0.346	9	0.27		0.220	7	0.13	28
29	6.5	0.284	24 S	0.59		0.277	6	0.14	2.3	0.266	8 S	0.18	29
30		0.257	12	0.27		0.279	6	0.14		0.233	4	0.08	30
31	6.2	0.242	7 S	0.15		0.258	5	0.11					31
TOTAL		21.951		298.30		9.225		16.99		5.640		2.39	TOTAL
MEAN		0.708		9.36		0.297		0.55		0.188		0.08	MEAN

EUNICE CREEK NEAR HINTON - STATION NO. 07AF005

SUSPENDED SEDIMENT FOR 1982

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.227	4	0.08		0.125 B	5	0.05					1
2		0.306	6	0.16		0.119 B	5	0.05					2
3		0.440	6	0.23	0.1	0.125 B	5 S	0.05					3
4		0.407	4	0.14									4
5		0.373	4	0.13									5
6		0.358	4	0.12									6
7		0.334	4	0.12									7
8		0.300	4	0.10									8
9		0.282	4	0.10									9
10		0.292	4	0.10									10
11		0.309	4	0.11									11
12		0.308	4	0.11									12
13		0.323	4	0.11									13
14		0.321	4	0.11									14
15		0.296	4	0.10									15
16		0.277	4	0.10									16
17		0.259	4	0.09									17
18		0.220 B	4	0.08									18
19		0.186 B	4	0.06									19
20		0.161 B	4	0.06									20
21		0.158	4	0.05									21
22		0.161	4	0.06									22
23		0.181	4	0.06									23
24		0.173	4	0.06									24
25		0.186	4	0.06									25
26		0.183	4	0.06									26
27		0.172	4	0.06									27
28		0.168	5	0.07									28
29		0.154 B	5	0.07									29
30		0.142 B	5	0.06									30
31		0.130 B	5	0.06									31
TOTAL		7.783		2.88									TOTAL
MEAN		0.251		0.09									MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 662 ON JUL 04

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 125 ON JUL 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 10 N
LONG 117 13 55 W
DRAINAGE AREA 17.1 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

MARMOT CREEK MAIN STEM NEAR SEEBE - STATION NO. 05BF016

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.007				0.012				0.012			1
2		0.007				0.012				0.011			2
3		0.004				0.012				0.012			3
4		0.003				0.012				0.012			4
5		0.002				0.012				0.011			5
6		0.004				0.012							
7		0.003				0.011				0.011			6
8		0.003 E				0.011				0.011			7
9		0.005 E				0.011				0.011			8
10		0.005 E				0.010				0.011			9
11		0.006 E								0.011			10
12		0.007 E				0.010							
13		0.008 E				0.010				0.012			11
14		0.011 E				0.009				0.012			12
15		0.012 E				0.009				0.012			13
16		0.012 E				0.010				0.012			14
17		0.012 E				0.011				0.012			15
18		0.012 A				0.011				0.012			16
19		0.012 E				0.011				0.012			17
20		0.012 E				0.011				0.012			18
21		0.012 E				0.011				0.012			19
22		0.012 E				0.012							20
23		0.012 E				0.012				0.012			21
24		0.011 E				0.012				0.012			22
25		0.011 E				0.012				0.012			23
26		0.011 E				0.012				0.012			24
27		0.011 E				0.011							25
28		0.011 E				0.011				0.012			26
29		0.011 A				0.011				0.012			27
30		0.011								0.012			28
31		0.012								0.013			29
										0.013			30
										0.013			31
TOTAL		0.272				0.311				0.368			TOTAL
MEAN		0.009				0.011				0.012			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.013	0	0		0.040	0	0		0.259	0	0	1
2		0.013	0	0		0.047	0	0		0.304	0	0	2
3		0.014	0	0		0.045	0	0		0.341	0	0	3
4		0.014	0	0		0.037	0	0		0.383	0	0	4
5		0.014	0	0		0.034	0	0		0.415	0	0	5
6		0.014	0	0		0.033	0	0					
7		0.014	0	0		0.032	0	0		0.375	0	0	6
8		0.014	0	0		0.029	0	0		0.332	0	0	7
9		0.014	0	0		0.027	0	0	2.0	0.320	0 S	0	8
10		0.014	0	0		0.027	0	0		0.373	1	0.03	9
11		0.014	0	0		0.032	1	0		0.456	4	0.16	10
12		0.014	0	0		0.040	1	0		0.565	12	0.59	11
13		0.015	0	0		0.046	1	0	2.0	0.722	15 S	0.94	12
14		0.015	0	0		0.064	1 S	0		0.844	15	1.09	13
15		0.015	0	0	0.5	0.099	1	0.01	2.5	0.938	16 S	1.13	14
16		0.015	0	0				0.01	3.0	0.983	22 S	1.87	15
17		0.015	0	0		0.137	1	0.01	2.0	1.03	12 S	1.07	16
18		0.015	0	0		0.138	1	0.01		0.970	8	0.67	17
19		0.015	0	0		0.144	1	0.01		0.872	7	0.53	18
20		0.015	0	0		0.122	1	0.01	3.0	0.869	7 S	0.53	19
21		0.016	0	0		0.144	1	0.01	4.0	0.857	5 S	0.37	20
22		0.019	0	0		0.180	1	0.02		0.825	4	0.29	21
23		0.022	0	0		0.221	1	0.02		0.753	3	0.20	22
24		0.025	0	0		0.236	1	0.02	3.0	0.698	2 S	0.12	23
25		0.024	0	0		0.257	1	0.02	3.5	0.629	1 S	0.05	24
26		0.024	0	0		0.286	1	0.02		0.572	1	0.05	25
27		0.027	0	0		0.286	1	0.02		0.525	1	0.05	26
28		0.031	0	0		0.222	0	0		0.523	0	0	27
29		0.033	0	0		0.181	0	0	4.0	0.501	0 S	0	28
30		0.036	0	0		0.158	0	0		0.472	0	0	29
31						0.154	0	0		0.450	0	0	30
						0.194	0	0					31
TOTAL		0.543		0		3.692		0.19		18.156		9.74	TOTAL
MEAN		0.018		0		0.119		0.01		0.605		0.32	MEAN

MARMOT CREEK MAIN STEM NEAR SEEBE - STATION NO. 05BF016

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.428	0	0		0.102	1	0.01		0.048	1	0	1
2		0.398	1	0.03		0.100	1	0.01		0.047	1	0	2
3		0.371	1	0.03	6.5	0.094	1 S	0.01		0.045	1	0	3
4		0.349	1	0.03		0.090	1	0.01		0.059	0	0	4
5		0.330	1	0.03		0.086	1	0.01		0.056	0	0	5
6	5.0	0.303	1 S	0.03		0.083	1	0.01		0.051	0	0	6
7		0.289	1	0.02		0.079	1	0.01		0.048	0	0	7
8		0.279	1	0.02		0.076	1	0.01		0.048	0	0	8
9		0.269	1	0.02		0.073	1	0.01		0.050	0	0	9
10		0.256	1	0.02		0.071	1	0.01		0.056	0	0	10
11		0.242	1	0.02	7.0	0.073	1 S	0.01	4.5	0.054	0 S	0	11
12		0.228	1	0.02		0.074	1	0.01		0.053	0	0	12
13	5.0	0.216	1 S	0.02		0.071	1	0.01		0.054	0	0	13
14		0.208	1	0.02		0.072	2	0.01		0.052	0	0	14
15		0.198	1	0.02		0.067	2	0.01		0.054	0	0	15
16		0.183	1	0.02		0.063	2	0.01		0.055	0	0	16
17		0.170	1	0.01	7.0	0.061	2 S	0.01		0.054	0	0	17
18		0.158	1	0.01		0.059	2	0.01		0.052	0	0	18
19		0.150	1	0.01		0.057	2	0.01		0.051	0	0	19
20	6.5	0.173	1 S	0.01		0.056	2	0.01		0.050	0	0	20
21		0.154	1	0.01		0.056	1	0		0.053	0	0	21
22		0.154	1	0.01		0.055	1	0		0.057	0	0	22
23		0.147	1	0.01		0.054	1	0		0.058	0	0	23
24		0.141	0	0		0.053	1	0		0.058	0	0	24
25		0.139	0	0	6.5	0.051	1 S	0		0.057	0	0	25
26		0.129	0	0		0.063	1	0.01		0.069	0	0	26
27	5.0	0.121	0 S	0		0.059	1	0.01		0.063	0	0	27
28		0.116	0	0		0.056	1	0		0.063	0	0	28
29		0.111	0	0		0.055	1	0		0.063	0	0	29
30		0.106	0	0		0.053	1	0		0.064	0	0	30
31		0.105	1	0.01		0.050	1	0					31
TOTAL		6.621		0.43		2.112		0.22		1.642		0	TOTAL
MEAN		0.214		0.01		0.068		0.01		0.055		0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.068	0	0		0.035				0.023			1
2		0.070	0	0		0.031				0.023			2
3		0.072	0	0		0.034				0.023			3
4		0.067	0	0		0.033				0.023			4
5		0.063	0	0		0.032				0.023			5
6		0.065	0	0		0.031				0.023 E			6
7		0.063	0	0		0.030				0.022 E			7
8		0.059	0	0		0.029				0.022 E			8
9		0.055	0	0		0.028 E				0.022 E			9
10		0.056	0	0		0.028 E				0.022 E			10
11		0.055	0	0		0.028 E				0.022 E			11
12		0.052	0	0		0.028 E				0.022 E			12
13		0.050	0	0		0.027 E				0.021 E			13
14		0.048	0	0		0.027 E				0.021 E			14
15		0.047	0	0		0.027 E				0.021 E			15
16		0.047	0	0		0.027 E				0.021			16
17		0.046	0	0		0.026 E				0.021			17
18		0.043	0	0		0.026 E				0.021			18
19		0.041	0	0		0.026 E				0.020			19
20		0.042	0	0		0.025 E				0.020			20
21		0.044	0	0		0.025 E				0.020			21
22		0.045	0	0		0.025 E				0.020			22
23		0.045	0	0		0.025 E				0.020			23
24		0.044	0	0		0.024 E				0.019			24
25		0.043	0	0		0.024				0.019			25
26		0.043	0	0		0.024				0.019			26
27		0.041	0	0		0.024				0.019			27
28		0.039	0	0		0.023				0.018			28
29		0.035	0	0		0.023				0.018			29
30		0.033	0	0		0.023				0.018			30
31		0.035	0	0						0.018			31
TOTAL		1.556		0		0.818				0.644			TOTAL
MEAN		0.050		0		0.027				0.021			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 22 ON JUN 15
MINIMUM DAILY 0 ON APR 01

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 1.87 ON JUN 15
MINIMUM DAILY 0 ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 01 N
LONG 115 09 08 W
DRAINAGE AREA 9.40 km^2
NATURAL FLOW

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

MIDDLE FORK CREEK NEAR SEEBE - STATION NO. 05BF017

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.004				0.004				0.003			1
2		0.003				0.004				0.003			2
3		0.004				0.004				0.003			3
4		0.004				0.004				0.003			4
5		0.003				0.004				0.003			5
6		0.003				0.004							
7		0.003				0.004				0.003			6
8		0.003				0.004				0.003			7
9		0.004				0.004				0.003			8
10		0.004				0.003				0.003			9
11		0.004								0.003			10
12		0.004				0.003							
13		0.004				0.003				0.003			11
14		0.004				0.003				0.002			12
15		0.004				0.003				0.002			13
16		0.004				0.003				0.002			14
17		0.004								0.002			15
18		0.004				0.003							
19		0.004				0.003				0.002			16
20		0.004				0.003				0.002			17
21		0.004				0.003				0.002			18
22		0.004								0.002			19
23		0.004				0.003							
24		0.004				0.003				0.002			20
25		0.004				0.003				0.002			21
26		0.004				0.003				0.002			22
27		0.004								0.002			23
28		0.004				0.003							
29		0.004				0.003				0.002			24
30		0.004								0.002			25
31		0.004								0.002			26
										0.002			27
										0.002			28
										0.002			29
										0.002			30
										0.002			31
TOTAL		0.119				0.093				0.078			TOTAL
MEAN		0.004				0.003				0.002			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.002				0.007	1	0		0.098	1	0.01	1
2		0.002				0.010	1	0		0.119	1	0.01	2
3		0.002				0.013	1	0		0.140	1 S	0.01	3
4		0.002				0.012	1	0		0.158	1	0.01	4
5		0.002				0.009	1	0		0.164	1	0.01	5
6		0.002											
7		0.002				0.008	1	0		0.151	2	0.03	6
8		0.002				0.007	1	0		0.131	2	0.02	7
9		0.002				0.007	1	0		0.123	2 S	0.02	8
10		0.002				0.006	1	0		0.149	3	0.04	9
11		0.002				0.006	1	0		0.197	5	0.09	10
12		0.002				0.006	2	0		0.289	15	0.32	11
13		0.002				0.013	2	0		0.312	34 S	0.92	12
14		0.002				0.013	2	0		0.360	47	1.46	13
15		0.002				0.020	2 S	0		0.386	32 S	1.07	14
16		0.002				0.038	2	0.01		0.392	17 S	0.58	15
17		0.002				0.049	2	0.01		0.401	12 S	0.42	16
18		0.002				0.047	2	0.01		0.382	12	0.40	17
19		0.002				0.045	2	0.01		0.359	9	0.28	18
20		0.002				0.036	2	0.01		0.352	7 S	0.21	19
21		0.002				0.052	2	0.01		0.345	6 S	0.18	20
22		0.002				0.066	2	0.01		0.333	5	0.14	21
23		0.003				0.085	2	0.01		0.300	4	0.10	22
24		0.003				0.094	2	0.02		0.270	3 S	0.07	23
25		0.004				0.126	2	0.02		0.243	3 S	0.06	24
26		0.004				0.150	2	0.03		0.219	3	0.06	25
27		0.004				0.128	2	0.02		0.204	3	0.05	26
28		0.005				0.105	2	0.02		0.202	2	0.03	27
29		0.007				0.080	1	0.01		0.194	2 S	0.03	28
30		0.006				0.064	1	0.01		0.185	2	0.03	29
31						0.060	1	0.01		0.176	2	0.03	30
						0.072	1	0.01					31
TOTAL		0.080				1.434		0.23		7.294		6.69	TOTAL
MEAN		0.003				0.046		0.01		0.243		0.22	MEAN

MIDDLE FORK CREEK NEAR SEEBE - STATION NO. 05BF017

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.165	2	0.03		0.038	0	0		0.018	0	0	1
2		0.158	2	0.03		0.037	0	0		0.017	0	0	2
3		0.146	2	0.03		0.035	0 S	0		0.017	0	0	3
4		0.135	2	0.02		0.033	0	0		0.021	0	0	4
5		0.126	1	0.01		0.031	0	0		0.019	1	0	5
6		0.113	1 S	0.01		0.029	0	0		0.018	1	0	6
7		0.107	1	0.01		0.027	0	0		0.019	1	0	7
8		0.105	1	0.01		0.026	0	0		0.020	1	0	8
9		0.103	1	0.01		0.025	0	0		0.021	1	0	9
10		0.099	1	0.01		0.025	0	0		0.023	1	0	10
11		0.094	1	0.01		0.026	0 S	0		0.022	1 S	0	11
12		0.090	1	0.01		0.026	0	0		0.021	1	0	12
13		0.084	1 S	0.01		0.025	1	0		0.021	1	0	13
14		0.081	1	0.01		0.025	1	0		0.020	1	0	14
15		0.077	1	0.01		0.023	1	0		0.021	1	0	15
16		0.071	1	0.01		0.022	1	0		0.022	1	0	16
17		0.065	1	0.01		0.021	1 S	0		0.021	0	0	17
18		0.060	1	0.01		0.021	1	0		0.021	0	0	18
19		0.056	1	0		0.020	1	0		0.021	0	0	19
20		0.062	1 S	0.01		0.020	1	0		0.022	0	0	20
21		0.058	1	0.01		0.020	0	0		0.023	0	0	21
22		0.059	1	0.01		0.020	0	0		0.026	0	0	22
23		0.059	1	0.01		0.019	0	0		0.026	0	0	23
24		0.057	1	0		0.018	0	0		0.026	0	0	24
25		0.055	0	0		0.018	0 S	0		0.025	0	0	25
26		0.050	0	0		0.021	0	0		0.028	0	0	26
27		0.047	0 S	0		0.019	0	0		0.026	0	0	27
28		0.045	0	0		0.019	0	0		0.025	0	0	28
29		0.043	0	0		0.019	0	0		0.025	0	0	29
30		0.041	0	0		0.018	0	0		0.025	0	0	30
31		0.040	0	0		0.018	0	0					31
TOTAL		2.551		0.29		0.744		0		0.660		0	TOTAL
MEAN		0.082		0.01		0.024		0		0.022		0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.028				0.013				0.007			1
2		0.029				0.012				0.008			2
3		0.029				0.012				0.008			3
4		0.028				0.011				0.008			4
5		0.028				0.011				0.008			5
6		0.029				0.011				0.008			6
7		0.029				0.011				0.008			7
8		0.026				0.011				0.008			8
9		0.025				0.011				0.008			9
10		0.024				0.010				0.007			10
11		0.023				0.010				0.007			11
12		0.022				0.010				0.007			12
13		0.021				0.010				0.007			13
14		0.020				0.010				0.007			14
15		0.020				0.009				0.007			15
16		0.019				0.009				0.007			16
17		0.018				0.009				0.007			17
18		0.018				0.009				0.006			18
19		0.017				0.009				0.006			19
20		0.017				0.009				0.006			20
21		0.018				0.009				0.006			21
22		0.018				0.009				0.006			22
23		0.017				0.009				0.006			23
24		0.017				0.009				0.006			24
25		0.016				0.009				0.006			25
26		0.016				0.009				0.006			26
27		0.015				0.008				0.006			27
28		0.014				0.008				0.006			28
29		0.013				0.007				0.006			29
30		0.013				0.007				0.006			30
31		0.013								0.006			31
TOTAL		0.640				0.291				0.211			TOTAL
MEAN		0.021				0.010				0.007			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 47 ON JUN 13
MINIMUM DAILY 0 ON JUL 25

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 1.46 ON JUN 13
MINIMUM DAILY 0 ON MAY 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 34 N
LONG 115 10 16 W
DRAINAGE AREA 2.85 km^2
NATURAL FLOW

S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

MILK RIVER AT EASTERN CROSSING OF INTERNATIONAL BOUNDARY - STATION NO. 11AA031

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										3.11 B			1
2										2.55 B			2
3										1.98 B			3
4										1.58 B			4
5										1.27 B			5
6													
7										0.991 B			
8										0.850 B			6
9										0.708 B			7
10										0.850 B			8
										2.83 B			9
11													10
12										8.50 B			
13										19.8 B			11
14										26.9 B			12
15										25.5 B			13
										22.7 B			14
16													15
17													
18										18.4 B			
19										14.2 B			16
20										9.91 B			17
										5.66 B			18
21										5.66 B			19
22													20
23										7.08 B			
24										8.50 B			21
25										8.50 B			22
										5.66 B			23
26										3.68 B			24
27													25
28										2.83 B			
29										4.25 B			26
30										7.08 B			27
31										11.3 B			28
										18.4 B			29
										17.0 B			30
TOTAL													31
MEAN										268.209			
										8.65			TOTAL MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		15.6 B				11.8	910	928					
2		12.7 B			15.5	11.8	864 S	881	12.0	33.7	2 670 S	7 770	1
3		8.50 B				11.2	771	746		30.3	1 990	5 210	2
4		5.66 B			9.5	10.2	690 S	608	13.5	29.7	1 790 S	4 590	3
5		4.25 B				9.15	611	483	13.0	30.0	2 030 S	5 260	4
									17.0	29.2	2 800 S	7 060	5
6		3.40 B											
7		2.83 B			11.5	9.40	626 S	508		28.1	2 500		
8		3.68 B				13.8	820	978	12.5	26.3	1 490 S	6 070	6
9		7.08 B			7.5	16.5	989 S	1 410		25.8	1 300	3 390	7
10		8.50 B				19.2	1 290	2 030	16.0	25.2	1 220 S	2 900	8
					6.0	27.2	2 340 S	5 500		24.4	1 150	2 660	9
11		9.91 B										2 420	10
12		12.7 B				25.9	2 060	4 610	19.5	23.6	1 170 S		
13		32.8			13.0	21.9	1 810 S	3 420		22.1	1 190	2 390	11
14		115				21.6	1 850	3 450	19.0	21.2	1 150 S	2 270	12
15		114			12.5	21.6	1 710 S	3 190		21.6	1 150	2 110	13
						21.3	1 490	2 740	24.0	20.6	1 060 S	2 150	14
16		89.8										1 890	15
17		51.5			18.0	22.3	1 460 S	2 810					
18		35.4				25.1	1 500	3 250	20.0	20.3	1 010	1 770	16
19		25.5			16.5	25.8	1 590 S	3 540		20.4	1 020 S	1 800	17
20		20.6				27.9	1 770	4 270	21.5	19.6	1 130	1 910	18
					11.5	25.8	1 990 S	4 440		19.3	1 050 S	1 750	19
21		18.6								20.9	1 120	2 020	20
22		16.5				23.6	1 880	3 830	24.0	21.4	1 210 S		
23		14.8			18.5	25.3	1 910 S	4 180		20.9	776	2 240	21
24		13.5				24.9	1 920	4 130	21.5	23.4	821 S	1 400	22
25		27.9	2 440	5 880	16.0	22.7	1 660 S	3 260		24.6	955	1 660	23
						21.9	1 470	2 780	23.0	25.5	894 S	2 030	24
26		31.7	2 910	7 970								1 970	25
27	9.5	25.9	2 730 S	6 110	13.5	22.6	1 350 S	2 640		26.9	995		
28		18.4	1 740	2 770		24.0	1 490	3 090	21.5	26.8	1 150 S	2 310	26
29	7.0	14.0	1 520 S	1 840	8.0	32.3	4 170 S	11 600		27.5	1 170	2 660	27
30	9.5	12.5	1 160 S	1 250		41.1	6 040	21 400	19.5	27.3	1 450 S	2 780	28
31					6.5	43.0	4 740 S	17 600		25.9	1 490	3 420	29
						41.1	3 900	13 800				3 330	30
TOTAL		773.21											31
MEAN		25.8				700.95		138 102		742.5		91 190	TOTAL
						22.6		4 450		24.8		3 040	MEAN

MILK RIVER AT EASTERN CROSSING OF INTERNATIONAL BOUNDARY - STATION NO. 11AA031

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	23.5	26.8	1 550 S	3 590		9.88	383	327		0.595	51	2.62	1
2		29.7	1 640	4 210	27.5	7.62	260 S	171		0.595	46	2.36	2
3	18.0	29.4	1 660 S	4 220		5.78	191	95.4		0.538	41	1.91	3
4		24.4	1 450	3 060	22.0	4.47	169 S	65.3		0.538	39	1.81	4
5	15.0	20.8	1 260 S	2 260		3.68	151	48.0		0.510	36	1.59	5
6		17.8	1 020	1 570	25.0	3.09	98 S	26.2		0.481	31	1.29	6
7	21.0	17.3	948 S	1 420		2.80	68	16.5		0.453	25	0.98	7
8		16.8	985	1 430		2.49	61	13.1	14.0	0.425	17 S	0.62	8
9	22.0	15.7	1 120 S	1 520		2.01	56	9.73		0.396	16	0.55	9
10		15.9	1 070	1 470	20.0	1.76	56 S	8.52		0.368	15	0.48	10
11	21.0	16.6	782 S	1 120		2.58	317	70.7		0.311	14	0.38	11
12		16.7	843	1 220	18.0	2.78	280 S	67.3		0.283	14	0.34	12
13	24.0	18.6	962 S	1 550		1.98 E	75	12.8		0.311	12	0.32	13
14	22.5	19.4	1 180 S	1 980		1.70 E	45	6.61	10.0	0.311	12 S	0.32	14
15	20.5	19.9	831 S	1 430		1.47 E	44	5.59		0.283	12	0.29	15
16		19.3	576	960		1.27 E	31	3.40		0.311	12	0.32	16
17	14.5	18.6	702 S	1 130	29.0	1.13 E	22 S	2.15		0.340	12	0.35	17
18		19.1	704	1 160		0.991 E	24	2.05		0.340	14	0.41	18
19	22.0	20.2	776 S	1 350	20.0	0.906	27 S	2.11		0.340	16	0.47	19
20		19.3	792	1 320		0.850	26	1.91		0.340	17	0.50	20
21	24.0	19.1	614 S	1 010		0.765	23	1.52	15.0	0.340	19 S	0.56	21
22		19.1	522	861		0.736	50	3.18		0.283	25	0.61	22
23	23.5	18.9	707 S	1 150		0.793	119	8.15		0.283	24	0.59	23
24		18.3	646	1 020	21.5	0.963	214 S	17.8		0.283	28	0.68	24
25	21.5	18.5	509 S	814		0.793	225	15.4		0.283	36	0.88	25
26		18.0	493	767		0.934	182	14.7		0.283	78	1.91	26
27	24.0	18.0	436 S	678		0.878	144	10.9		1.19	965	99.2	27
28		18.3	428	677		0.765	114	7.53		4.56	1 630	642	28
29	23.5	18.1	422 S	660		0.708	90	5.51		2.58	1 450	323	29
30		17.5	423	640		0.708	66	4.04		2.46	1 460	310	30
31	25.5	13.5	424 S	495	15.0	0.651	50 S	2.81					31
TOTAL		599.6		46 742		67.931		1 846.91		20.614		1 397.34	TOTAL
MEAN		19.3		1 510		2.19		33.8		0.687		46.6	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	6.5	1.93	1 290 S	215									1
2		1.59	1 010	139									2
3		1.33	765	87.9									3
4		1.30	539	60.5									4
5		1.42	335	41.1									5
6	4.5	1.33	196 S	22.5									6
7		1.44	150	18.7									7
8	5.0	1.50	123 S	15.9									8
9		1.36	108	12.7									9
10		1.33	96	11.0									10
11		1.30	87	9.77									11
12		1.30	79	8.87									12
13	13.5	1.25	69 S	7.45									13
14	9.0	1.25	60 S	6.48									14
15		1.19	55	5.65									15
16		1.10	51	4.85									16
17		1.02	49	4.32									17
18		1.10	47	4.47									18
19		1.13	44	4.30									19
20		1.25	44	4.75									20
21		1.22	43	4.53									21
22		1.36	44	5.17									22
23		1.50	43	5.57									23
24		1.33	41	4.71									24
25		1.02	40	3.53									25
26		0.963	38	3.16									26
27		0.991	37	3.17									27
28		0.963	37	3.08									28
29		0.991 E	36	3.08									29
30		0.991 E	36	3.08									30
31		0.991 E	35	3.00									31
TOTAL		38.740		727.29									TOTAL
MEAN		1.25		23.5									MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 59 05 N
LONG 110 28 15 W
DRAINAGE AREA 6 490 km^2
REGULATED FLOW SINCE 1917
INTERNATIONAL GAUGING STATION

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY UNITED STATES GEOLOGICAL SURVEY

ALBERTA

MILK RIVER AT EASTERN CROSSING OF INTERNATIONAL BOUNDARY - STATION NO. 11AA031

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 29	11:15	10.5	7.0	1 680 R	19	30	43	54	61	69	82	94	97	99		BMW
MAY 10	10:21	27.2 H	6.0	2 110 K	5	11	36	62	71	79	90	99	100			BMW
MAY 20	10:36	25.8 H	11.5	1 830 K	8	17	23	32	43	55	69	86	93	97		BMW
MAY 30	14:54	43.0 H	6.5	4 320 K	6	16	34	62	75	86	93	97	99	99		BMW
JUN 04	07:25	30.1	13.0	2 010 R	10	16	24	33	48	66	87	96	99	100		BMW
JUN 11	19:03	23.6 H	19.5	1 150 K	10	13	21	31	45	67	90	99	100			BMW
JUL 03	08:06	29.4 H	19.0	1 690 K	12	18	26	37	50	66	82	98	99	100		BMW
OCT 01	13:06	1.93H	6.5	1 280 K	51	87	96	96	97	98	100					BMW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

NILK RIVER AT NILK RIVER - STATION NO. 11AA005

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.110 B				0.020 B				0.400 B	12	0.41	1
2		0.110 B				0.020 B				0.330 B	12	0.34	2
3		0.110 B				0.020 B				0.290 B	12	0.30	3
4		0.110 B				0.020 B				0.260 B	12	0.27	4
5		0.110 B				0.010 B				0.240 B	12	0.25	5
6		0.110 B				0.010 B				0.220 B	12	0.23	6
7		0.110 B				0.015 B				0.210 B	12	0.22	7
8		0.110 B				0.015 B				0.210 B	12	0.22	8
9		0.100 B				0.018 B				0.400 B	12	0.41	9
10		0.100 B				0.018 B				2.70 B	12	2.80	10
11		0.100 B				0.050 B				8.50 B	12	8.81	11
12		0.110 B				0.090 B				15.0 B	12	15.6	12
13		0.140 B				0.130 B				13.3 B	12	13.8	13
14		0.190 B				0.190 B				10.8 B	12	11.2	14
15		0.200 B				0.240 B				8.40 B	12	8.71	15
16		0.190 B				0.290 B				6.00 B	12	6.22	16
17		0.180 B				0.270 B				3.90 B	12	4.04	17
18		0.140 B				0.200 B			0.1	2.79 B	12 S	2.89	18
19		0.120 B				0.140 B				2.30 B	12	2.38	19
20		0.100 B				0.130 B				2.20 B	12	2.28	20
21		0.060 B				0.170 B				2.90 B	12	3.01	21
22		0.040 B				0.220 B				3.00 B	13	3.37	22
23		0.040 B				0.290 B			0.1	2.92 B	13 S	3.28	23
24		0.030 B				0.400 B				2.70 B	13	3.03	24
25		0.030 B				0.500 B				1.90 B	13	2.13	25
26		0.040 B				0.580 B				1.70 B	13	1.91	26
27		0.040 B				0.530 B				2.00 B	13	2.25	27
28		0.030 B				0.460 B				2.90 B	13	3.26	28
29		0.030 B								4.70 B	14	5.69	29
30		0.040 B								6.50 B	20	11.2	30
31		0.030 B							0.1	3.77 B	19 S	6.19	31
TOTAL		3.034				5.046				113.440		126.70	TOTAL
MEAN		0.097				0.180				3.66		4.09	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		3.30 B	20	5.70		9.20	176	140		23.4	349	706	1
2		3.00 B	18	4.67		8.00	171	118	10.0	23.2	296 S	593	2
3		2.90 B	22	5.51		8.40	166	122	13.0	21.9	224 S	424	3
4		2.70 B	22	5.13	7.5	12.3	159 S	169		20.5	194	344	4
5		2.65 B	27	6.18		12.5	152	164		19.5	191	322	5
6	0.1	2.63 B	20 S	4.54		11.5	158	157		19.9	204	351	6
7		2.30 B	13	2.58		15.1	200	261		20.5	213	377	7
8		2.20 B	9	1.71		18.9	252	412	12.5	20.6	185 S	329	8
9		3.00 B	2	0.52		20.5	305	540		20.1	140	243	9
10		4.00 B	20	6.91		21.0	354	642	12.5	18.8	116 S	188	10
11		6.00 B	395	153	7.0	20.6	392 S	698		18.1	107	167	11
12		12.0 B	1 140	1 188		20.2	419	731		17.7	95	145	12
13		92.0 B	2 380	18 900		19.9	436	750		17.1	87	129	13
14	1.0	112 A	4 070 S	39 400		21.0	450	816	20.0	16.7	76 S	110	14
15	2.0	71.6	2 590 S	16 000		22.6	459	896	20.0	16.6	67 S	96.1	15
16		35.8	1 180	3 650		23.4	467	944		16.6	79	113	16
17		24.6	782	1 660		23.9	476	983		16.5	103	147	17
18		19.9	636	1 090		24.1	486	1 010		16.4	139	197	18
19		17.0	538	790	13.0	24.5	488 S	1 030		16.8	199	289	19
20		13.3	387	445		25.1	489	1 060		18.5	279	446	20
21	6.0	11.4	274 S	270		25.2	486	1 060	22.5	19.9	328 S	564	21
22		11.4	249	245		24.5	476	1 010		20.7	324	579	22
23		28.0 A	262	634		24.0	463	960	12.5	21.7	286 S	536	23
24		38.1 A	246	810		23.9	449	927		21.8	243	458	24
25		31.5	244	664		23.9	431	890		21.7	222	416	25
26		16.7	220	317	10.5	23.9	404 S	834		21.8	210	396	26
27	12.0	12.0	181 S	188		24.9	403	867		21.7	205	384	27
28		10.9	191	180		26.6	420	965		21.6	204	381	28
29		10.7	191	177		25.7	427	1 100		22.0	215	409	29
30		10.5	185	168		28.2	419	1 020		26.3	238	541	30
31						24.4	391	824					31
TOTAL		614.08		86 964.45		641.98		22 100		598.6		18 380.1	TOTAL
MEAN		20.5		2 900		20.7		713		20.0		346	MEAN

ALBERTA

MILK RIVER AT MILK RIVER - STATION NO. 11AA005

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		26.1	260	586		3.42	15	4.43		0.507 E	5	0.22	1
2		25.2	253	551		2.40	5	1.04		0.458 A	5	0.20	2
3		22.5	234	455	15.0	1.74	5 S	0.75		0.429 E	5	0.19	3
4		20.7	221	395		1.45	5	0.63		0.458 A	5	0.20	4
5		20.0	206	356		1.21	5	0.52		0.406	5	0.18	5
6	16.0	19.4	198 S	332		0.950	5	0.41		0.406	3	0.11	6
7	14.0	18.9	225 S	367		0.821	4	0.28		0.406	2	0.07	7
8		19.3	251	419		0.744	4	0.26	12.0	0.396	2 S	0.07	8
9		19.7	269	458	12.5	0.741	3 S	0.19		0.408	2	0.07	9
10		19.7	277	471		0.711	4	0.25		0.363	2	0.06	10
11		19.4	279	468		0.648	5	0.28		0.343	2	0.06	11
12	18.0	18.9	255 S	416		0.635	5	0.27		0.406 E	2	0.07	12
13	22.0	18.8	173 S	281		0.572	5	0.25		0.405 E	2	0.07	13
14		18.6	133	214		0.538	6	0.28		0.408 E	2	0.07	14
15		18.1	127	199		0.506	6	0.26		0.396 E	2	0.07	15
16		19.0	148	243	23.0	0.487	7 S	0.29		0.534	2	0.09	16
17		18.9	158	258	24.0	0.481	7 S	0.29		0.599	2	0.10	17
18		18.7	159	257		0.510	7	0.31		0.573	3	0.15	18
19		18.6	161	259		0.496	7	0.30		0.520	3	0.13	19
20		18.3	162	256		0.468	6	0.24		0.517	3	0.13	20
21		18.1	162	253		0.469	6	0.24		0.509	3	0.13	21
22		17.8	161	248		0.480	5	0.21		0.468	3	0.12	22
23		17.5	160	242		0.536 A	5	0.23		0.480	4	0.17	23
24		17.4	160	241		0.548 E	5	0.24		0.591	4	0.20	24
25		17.6	161	245		0.531 E	5	0.23		0.628	4	0.22	25
26		17.5	161	243		0.593 A	5	0.26		0.642	5	0.28	26
27	20.5	17.4	154 S	232		0.616 E	5	0.27	8.0	0.863 A	5 S	0.37	27
28	20.0	14.5	127 S	159		0.606 E	5	0.26		1.09	5	0.47	28
29		10.2	95	83.7		0.606 E	5	0.26		1.35	5	0.58	29
30		7.31	65	41.1		0.591 E	5	0.26		1.49	5	0.64	30
31		5.09	40	17.6		0.542 E	5	0.23					31
TOTAL		559.20		9 246.4		25.646		14.22		17.049		5.49	TOTAL
MEAN		18.0		298		0.827		0.46		0.568		0.18	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.58	5	0.67		0.830 B	4	0.29		0.525 B			1
2		1.60	5	0.69	1.0	0.811 B	4 S	0.28		0.550 B			2
3		1.64	5	0.71		0.730 B				0.570 B			3
4		1.56	6	0.81		0.790 B				0.580 B			4
5	4.5	1.53	6 S	0.79		0.780 B				0.570 B			5
6		1.48	6	0.77		0.770 B				0.560 B			6
7		1.37	6	0.71		0.750 B				0.540 B			7
8		1.28	5	0.55		0.730 B				0.520 B			8
9		1.24	5	0.54		0.725 B				0.490 B			9
10		1.19	5	0.51		0.725 B				0.470 B			10
11		1.16	4	0.40		0.730 B				0.460 B			11
12	12.5	1.05	4 S	0.36		0.740 B				0.450 B			12
13		1.03	4	0.36		0.750 B				0.450 B			13
14		0.974	4	0.34		0.750 B				0.460 B			14
15		0.951	4	0.33		0.740 B				0.470 B			15
16		0.952	4	0.33		0.730 B				0.478 B			16
17		0.941	4	0.33		0.720 B				0.470 B			17
18		0.925	4	0.32		0.690 B				0.460 B			18
19		0.840	4	0.29		0.670 B				0.460 B			19
20		0.963	4	0.33		0.630 B				0.460 B			20
21		1.07	4	0.37		0.600 B				0.470 B			21
22		1.11	4	0.38		0.570 B				0.470 B			22
23		1.01	4	0.35		0.550 B				0.480 B			23
24		0.970	4	0.34		0.530 B				0.490 B			24
25		0.956	4	0.33		0.505 B				0.500 B			25
26		0.932	4	0.32		0.490 B				0.510 B			26
27		0.921	4	0.32		0.480 B				0.520 B			27
28		0.880	4	0.30		0.480 B				0.520 B			28
29		0.862	4	0.30		0.490 B				0.520 B			29
30		0.880 B	4	0.30		0.500 B				0.530 B			30
31		0.850 B	4	0.29						0.530 B			31
TOTAL		36.657		13.74		19.986				15.533			TOTAL
MEAN		1.12		0.44		0.666				0.501			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 4 070 ON APR 14

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 39 400 ON APR 14

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY UNITED STATES GEOLOGICAL SURVEY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 08 37 N
LONG 112 04 44 W
DRAINAGE AREA 2 720 km^2
REGULATED FLOW SINCE 1916
INTERNATIONAL GAUGING STATION

MILK RIVER AT MILK RIVER - STATION NO. 11AA005

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 14	16:40	90.5	1.0	4 520 R	9	16	24	34	48	68	86	97	99	100		BNW

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ALBERTA

OLDMAN RIVER NEAR BROCKET - STATION NO. 05AA024

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		4.30 B				4.80 B				7.00 B			1
2		4.20 B				4.70 B				6.66 B			2
3		4.05 B				4.50 B				5.13 B			3
4		3.95 B				4.35 B				5.89 B			4
5		3.89 B				4.25 B				5.53 B			5
6		3.83 B				4.20 B				5.36 B			6
7		3.49 B				4.15 B				6.70 B			7
8		3.18 B				4.05 B				6.63 B			8
9		3.06 B				3.95 B				6.40 B			9
10		3.03 B				3.87 B				8.49 B			10
11		3.07 B				3.93 B				8.43 B			11
12		2.82 B				4.46 B				8.33 B			12
13		2.85 B				4.27 B				8.14 B			13
14		2.98 B				4.08 B				7.93 B			14
15		3.05 B				4.66 B				7.89 B			15
16		2.76 B				5.23 B				7.06 B			16
17		3.15 B				6.30 B				6.49 B			17
18		3.61 B				6.01 B				6.07 B			18
19		4.04 B				6.10 B				5.84 B			19
20		4.18 B				6.20 B				6.02 B			20
21		4.26 B				6.25 B				6.25 B			21
22		4.07 B				6.28 B				7.11 B			22
23		4.06 B				6.30 B				7.56 B			23
24		3.92 B				6.39 B				8.22 B			24
25		4.37 B				6.35 B				7.40 B			25
26		5.53 B				6.20 B				7.19 B			26
27		5.45 B				6.73 B				10.0 B			27
28		5.35 B				6.90 B				11.9 B			28
29		5.20 B								10.6 B			29
30		5.05 B								9.80 B			30
31		4.95 B								9.40 B			31
TOTAL		121.70				145.44				231.41			TOTAL
MEAN		3.93				5.19				7.46			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		8.80 B	15	11.4		30.7	47	125		87.4	28	211	1
2		8.30 B	15	10.8		39.7	61	209	10.0	95.4	30 S	247	2
3		8.00 B	15	10.4		56.4	70	341	11.0	109	41 S	386	3
4		8.20 B	15	10.6		52.8	65	297		127	58	636	4
5		8.25 B	15	10.7		43.3	54	202		146	73	921	5
6		8.20 B	15	10.6		41.1	43	153		151	73	952	6
7		7.80 B	15	10.1		40.9	33	117	6.0	141	60 S	731	7
8		7.70 B	15	9.98		45.5	24	94.3		123	40	425	8
9		7.60 B	15	9.85		41.7	17	61.2		116	29	291	9
10		7.80 B	15	10.1		36.1	10	31.2	10.0	120	31 S	321	10
11		8.50 B	20	14.7		32.7	6 S	17.8		135	50	583	11
12		9.00 B	20	15.6	11.0	37.2	14 S	45.0		150	71	920	12
13		10.6 B	20	18.3		46.8	31	125		162	95	1 330	13
14		12.0 B	20	20.7		60.8	53	278		172	123	1 830	14
15		11.8 B	20	20.4		79.8	84	579	9.0	175	150 S	2 270	15
16		9.98 B	25	21.6		108	121	1 050	10.0	175	157 S	2 370	16
17		13.1 B	25	28.3		103	152	1 350		168	118	1 670	17
18		15.8	28	38.2		114	158	1 560		149	71	918	18
19		14.4	28	34.8	9.0	118	137 S	1 400	15.0	143	47 S	581	19
20		12.1	31	32.4		108	114	1 060		145	40	501	20
21	2.0	14.9	36 S	46.3	14.0	115	93 S	924		186	43	542	21
22		19.7	43	73.2		130	95	1 070	12.0	143	45 S	556	22
23		28.2	50	122		144	134	1 670		135	39	455	23
24		36.8	53	169		139	242	2 910	12.0	124	28 S	300	24
25		28.5	38	93.6		153	468	6 190		119	24	247	25
26		33.9	35 S	51.6	7.0	181	463 B	7 240		116	23	231	26
27		25.5	24	52.9	7.0	153	90 S	1 190		119	23	236	27
28		30.3	30	78.5		125	27	292		118	21	214	28
29		34.3	38	113	6.0	103	28 S	249	11.0	111	21 S	201	29
30		30.7	41	109		89.5	28	217		118	21	214	30
31						84.8	28	203					31
TOTAL		470.73		1 258.63		2 645.8		31 249.7		4 038.8		21 286	TOTAL
MEAN		15.7		42.0		85.3		1 010		134		710	MEAN

OLDMAN RIVER NEAR BROCKET - STATION NO. 05AA024

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		114	20	197		21.9	5	9.46		10.6	A	3.66	1
2		105	14	127		21.0	5	9.07		10.1	A	3.49	2
3		96.6	10	83.5		20.8	5	8.99		9.89	A	3.42	3
4		87.7	8	60.6	15.0	20.1	5 S	8.68		10.5	A	3.65	4
5		81.1	7	49.0		19.2	5	8.29		13.5	5	5.83	5
6		78.4	7	45.0		18.0	5	7.78		12.9	A	4.46	6
7	14.0	68.6	8 S	47.4		17.1	5	7.39		11.5	5	4.97	7
8		63.6	8	44.0		16.5	5	7.13		10.8	5	4.67	8
9		59.9	9	46.6		16.9	5	7.30		10.3	5	4.45	9
10		57.0	11	54.2		18.0	6	9.33		10.1	5	4.36	10
11		54.4	12	56.4		17.1	6	8.86		11.4	5	4.92	11
12	18.0	51.6	14 S	62.4		16.2	6	8.40		12.1	5	5.23	12
13		49.4	15	64.0	17.0	17.3	6 S	8.97	9.0	12.4	5 S	5.36	13
14		49.9	14	60.4		16.2	6	8.40		12.3	5	5.31	14
15		49.7	13	55.8		16.7	6	8.66		11.7	5	5.05	15
16		47.1	12	48.8		15.7	6	8.14		11.6	5	5.01	16
17		44.1	10	38.1		14.7	6	7.62		11.6	5	5.01	17
18		40.4	9	31.4		13.9	6	7.21		11.5	5	4.97	18
19		38.2	8	26.4		13.3	6	6.89		11.3	5	4.88	19
20		37.0	7	22.4		12.9	6	6.69		11.1	4	3.84	20
21	20.0	36.8	6 S	19.1		13.0	6	6.76		11.2	4	3.87	21
22	15.0	34.5	7 S	20.9		12.7	6	6.58		11.2	4	3.87	22
23		32.8	7	19.8	18.0	12.5	6 S	6.48		11.3	4	3.91	23
24		31.1	7	18.8		12.7	6	6.58		10.7	4	3.70	24
25		29.7	7	18.0		12.0	6	6.22		10.3	4	3.56	25
26		29.0	6	15.0		12.5	7	7.56		11.6 E	4	4.01	26
27		27.3	6	14.2		13.1	7	7.92	8.0	16.4 A	4 S	5.67	27
28		26.0	6	13.5	15.0	12.2	7 S	7.38		16.1 E	4	5.56	28
29		24.8	6	12.9		11.4	5	4.92		15.8 E	4	5.46	29
30		23.5	6	12.2	12.0	11.5	4 S	3.97		15.6 A	4	5.39	30
31		22.2	6	11.5		11.1	4	3.84					31
TOTAL		1 587.4		1 396.3		478.2		231.45		357.39		137.52	TOTAL
MEAN		51.2		45.0		15.4		7.47		11.9		4.58	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		15.3 E				12.4				7.05 B			1
2		15.0 E				11.9				7.00 B			2
3		14.8 E				10.3				6.90 B			3
4		15.2 E				11.2				6.85 B			4
5		15.0 E				12.7				6.80 B			5
6		14.1 E				12.1				6.80 B			6
7		13.3 A				10.9				6.85 B			7
8		13.1				8.58				7.00 B			8
9		12.7				7.92				7.15 B			9
10		12.4				7.52				7.35 B			10
11		12.3				7.35 B				7.50 B			11
12		12.3				7.07 B				7.65 B			12
13		12.1				6.80 B				7.77 B			13
14		12.0				6.45 B				7.95 B			14
15		12.0				6.20 B				8.10 B			15
16		11.8				6.20 B				8.20 B			16
17		11.6				6.25 B				8.25 B			17
18		11.9				6.30 B				8.20 B			18
19		11.9				6.40 B				8.22 B			19
20		11.2				6.45 B				8.20 B			20
21		11.3				6.50 B				8.15 B			21
22		11.4				6.58 B				8.13 B			22
23		12.0				6.65 B				8.10 B			23
24		16.4				6.80 B				8.07 B			24
25		15.0				7.05 B				8.05 B			25
26		14.2				7.10 B				8.04 B			26
27		13.7				7.15 B				8.03 B			27
28		13.6				7.20 B				8.03 B			28
29		13.4				7.15 B				8.02 B			29
30		13.1				7.10 B				8.01 B			30
31		12.2								8.00 B			31
TOTAL		406.2				240.27				238.42			TOTAL
MEAN		13.1				8.01				7.69			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 468 ON MAY 25

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 7 240 ON MAY 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 33 27 N
LONG 113 49 20 W
DRAINAGE AREA 4 400 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

OLDMAN RIVER NEAR LETHBRIDGE - STATION NO. 05AD007

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		4.78 B				8.45 B				11.7 B	4	4.04	1
2		4.56 B				8.20 B				12.0 B	4	4.15	2
3		4.50 B				8.00 B				12.7 B	4	4.39	3
4		4.30 B				7.75 B				13.2 B	4	4.56	4
5		4.25 B				7.55 B				13.2 B	4	4.56	5
6		4.19 B				7.45 B				13.4 B	4	4.63	6
7		4.10 B				7.35 B				13.4 B	4	4.63	7
8		4.10 B				7.20 B			0.1	14.2 B	4 S	4.91	8
9		4.05 B				7.35 B				14.7 B	4	5.08	9
10		4.00 B				7.80 B				15.2 B	4	5.25	10
11		4.20 B				8.45 B				16.2 B	4	5.60	11
12		4.50 B				8.70 B				16.4 B	5	7.08	12
13		5.00 B				9.10 B				17.4 B	5	7.52	13
14		4.95 B				10.2 B				18.5 B	5	7.99	14
15		4.90 B				11.2 B				18.8 B	6	9.75	15
16		4.85 B				12.0 B				19.3 B	6	10.0	16
17		4.80 B				11.9 B				18.8 B	7	11.4	17
18		4.75 B				12.0 B				17.8 B	8	12.3	18
19		4.70 B				12.2 B				17.2 B	9	13.4	19
20		4.65 B				12.4 B				17.0 B	9	13.2	20
21		4.60 B				13.0 B				17.3 B	10	14.9	21
22		4.60 B				12.2 B				17.2 B	11	16.3	22
23		5.50 B				11.4 B				17.2 B	12	17.8	23
24		7.00 B				10.6 B				17.5 B	14	21.2	24
25		8.00 B				10.2 B				17.8 B	15	23.1	25
26		8.74 B				10.4 B				18.0 B	17	26.4	26
27		8.65 B				10.7 B				19.0 B	18	29.5	27
28		8.35 B				11.2 B				21.0 B	20	36.3	28
29		8.40 B								22.7 B	21	41.2	29
30		8.50 B								25.7 B	23	51.1	30
31		8.75 B							1.0	28.9 B	23 S	57.4	31
TOTAL		171.22				274.95				533.4		479.64	TOTAL
MEAN		5.52				9.82				17.2		15.5	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		30.0 B	22	57.0		32.3	41	114	12.0	210	451 S	8 180	1
2		27.4 B	12	28.4	14.0	27.9	27 S	65.1	13.0	203	362 S	6 350	2
3		26.4 B	10	22.8		28.8	29	72.2	12.0	204	321 S	5 660	3
4		26.4 B	10	22.8		39.1	48	162	14.0	186	206 S	3 310	4
5		26.6 B	11	25.3	9.0	45.5	33 S	130	13.0	211	269 S	4 900	5
6		27.3 B	13	30.7		39.2	23	77.9	10.0	246	469 S	9 970	6
7		30.0 B	13	33.7	8.0	35.8	21 S	65.0	9.0	263	614 S	14 000	7
8		32.2 B	31	86.2		36.4	30	94.3	10.0	274	691 S	16 400	8
9		34.4 B	75	223	7.0	40.1	31 S	107	13.0	279	936 S	22 600	9
10		36.0 B	125	389		40.9	28	98.9	14.0	267	569 S	13 100	10
11		41.0 B	155	549	9.0	35.5	20 S	61.3	15.0	255	337 S	7 420	11
12		46.5 B	206	828		31.6	17	46.4	15.0	268	327 S	7 570	12
13		50.0 B	254	1 100	12.0	29.3	15 S	38.0	16.0	285	426 S	10 500	13
14		87.0 B	348	2 620		35.0	22	66.5	18.0	309	655 S	17 500	14
15		99.1	341	2 920	15.0	45.2	32 S	125	16.0	316	702 S	19 200	15
16	0.1	79.1	259 S	1 770		61.8	116	619	15.0	324	758 S	21 100	16
17		65.2	243	1 370	15.0	81.0	200 S	1 400	15.0	325	684 S	19 200	17
18		59.6	223	1 150	13.0	90.1	251 S	1 950	16.5	291	486 S	12 200	18
19		54.2	196	918	10.0	101	282 S	2 460	17.5	311	638 S	17 100	19
20		45.5	124	487	12.0	108	327 S	3 050	16.0	296	363 S	9 280	20
21	7.0	40.4	66 S	230	13.0	109	218 S	1 960	19.0	292	304 S	7 670	21
22	7.0	36.8	46 S	146	17.0	111	223 S	2 140	18.0	282	258 S	6 290	22
23	10.0	36.1	36 S	112	15.0	125	272 S	2 940	12.0	261	239 S	5 390	23
24		44.3	67	256	13.0	141	493 S	6 010	11.0	248	215 S	4 610	24
25		53.8	95	442	15.0	151	468 S	6 110	15.0	235	191 S	3 880	25
26	9.0	51.3	45 S	199	12.0	170	770 S	11 300	17.0	226	187 S	3 650	26
27	8.0	41.5	40 S	143	10.0	268	1 010 S	18 200	18.0	221	153 S	2 920	27
28	10.0	36.3	43 S	135	7.0	241	874 S	18 200	18.0	221	152 S	2 900	28
29		32.8	31	87.9	7.0	274	1 430 S	33 900	15.0	199	128 S	2 200	29
30	8.0	32.3	43 S	120	8.0	254	800 S	17 600	15.0	193	126 S	2 100	30
31					10.0	229	556 S	11 000					31
TOTAL		1 329.5		16 501.8		2 992.5		140 162.6		7 701		287 150	TOTAL
MEAN		44.3		550		96.5		4 520		257		9 570	MEAN

OLDMAN RIVER NEAR LETHBRIDGE - STATION NO. 05AD007

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	18.0	233	314 S	6 320		41.1	15	53.3		7.63	14	9.23	1
2	17.0	247	690 S	14 700	20.0	38.8	14 S	46.9		6.93	12	7.19	2
3	16.0	256	707 S	15 600		31.3	14	37.9		6.58	11	6.25	3
4	15.0	247	429 S	9 160		28.0	14	33.9		7.82	10	6.76	4
5	14.0	234	309 S	6 250		18.5	15	24.0		7.99	9	6.21	5
6	15.0	199	180 S	3 090		12.5	15	16.2					
7	16.0	158	119 S	1 620	25.0	10.5	15 S	13.6	17.0	8.25	8	5.70	6
8	16.0	112	78 S	755		9.58	14	11.5		8.01	7 S	4.86	7
9	19.0	82.9	44 S	315		9.59	14	11.6		7.61	7	4.60	8
10	20.0	74.6	23 S	148	24.0	10.3	13 S	11.6		7.62	7	4.61	9
11		59.7	10	51.6		10.5	12	10.9		8.22	7	4.97	10
12	20.0	54.4	10 S	47.0		8.30	11	7.89		8.20	8	5.67	11
13		52.5	11	49.9		7.82	10	6.76		9.33	8	6.45	12
14		84.3	12	87.4	24.0	8.59	9 S	6.68	9.0	10.1	8	6.98	13
15		88.2	14	107		7.96	9	6.19		10.9	8 S	7.53	14
16		78.8	15	102		7.62	10	6.58		11.2	8	7.74	15
17		72.6	16	100	24.0	7.30	10 S	6.31		11.1	8	7.67	16
18		80.4 A	17	118		6.95	8	4.80		11.0	8	7.60	17
19		71.8 A	19	118	26.0	6.79	6 S	3.52		10.8	8	7.46	18
20	18.0	66.6	21 S	121		6.48	7	3.92		10.7	8	7.40	19
21		50.4	19	82.7		6.53	8	4.51		10.9	8	7.53	20
22		39.7	14	48.0		6.55	9	5.09	18.0	10.8	8 S	7.46	21
23	20.0	37.1	12 S	38.5	20.0	9.35	10 S	8.08		10.8	9	8.40	22
24		44.8	21	81.3		7.42	10	6.41		10.9	10	9.42	23
25		48.7	25	105		6.85	9	5.33		10.8	14	13.1	24
26	22.0	51.5	28 S	125		7.63	8	5.27		10.7	20	18.5	25
27		61.6	72	383		7.92	7	4.79		12.1	26	27.2	26
28	21.0	66.2	87 S	498		7.98	6	4.14		14.7	30	38.1	27
29	22.0	48.7	37 S	156		8.16	5	3.53		15.8	32	43.7	28
30		52.1	36	162		7.86	4	2.72	8.0	18.3	31 S	49.0	29
31	25.0	45.9	18 S	71.4	16.0	7.56	10 S	6.53		21.1	29	52.9	30
													31
TOTAL		3 099.5		60 610.8		372.25		380.45		316.89		400.17	TOTAL
MEAN		100.0		1 960		12.0		12.3		10.6		13.3	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	5.0	34.5	25 S	74.5		39.4	19	64.7		22.0 B			1
2		37.6	18	58.5		39.8	18	61.9		20.5 B			2
3		39.6	24	82.1	2.0	40.1	17 S	58.9		18.5 B			3
4		38.7	47	157		39.7				17.5 B			4
5	7.0	37.6	50 S	162		39.7				16.9 B			5
6		29.8	37	95.3		39.0				16.4 B			6
7		26.8	24	55.6		37.6				15.9 B			7
8		27.0	12	28.0		34.5 B				15.5 B			8
9	7.0	27.0	9 S	21.0		31.0 B				15.2 B			9
10		36.9	10	31.9		27.5 B				15.0 B			10
11		35.9	10	31.0		25.0 B				15.0 B			11
12		33.5	11	31.8		24.8 B				15.2 B			12
13		33.7	12	34.9		25.0 B				16.9 B			13
14		33.5	12	34.7		25.5 B				19.3 B			14
15		33.4	13	37.5		26.2 B				21.0 B			15
16		32.4	13	36.4		24.0 B				20.4 B			16
17	6.0	32.2	14 S	38.9		22.0 B				19.7 B			17
18		32.1	15	41.6		20.5 B				19.1 B			18
19		30.2	18	47.0		18.7 B				18.7 B			19
20		27.8	22	52.8		18.0 B				18.5 B			20
21		29.1	25	62.9		17.6 B				18.3 B			21
22	10.0	34.6	26 S	77.7		17.3 B				17.9 B			22
23		36.0	26	80.9		16.8 B				17.6 B			23
24		36.5	26	82.0		16.7 B				17.4 B			24
25		37.5	25	81.0		16.6 B				17.2 B			25
26	7.0	40.4	24 S	83.8		16.5 B				17.0 B			26
27		39.6	23	78.7		16.3 B				16.8 B			27
28		38.3	21	69.5		16.5 B				16.7 B			28
29		38.0	20	65.7		17.5 B				16.5 B			29
30	5.0	38.3	19 S	62.9		19.5 B				16.4 B			30
31		38.6	19	63.4						16.3 B			31
TOTAL		1 067.1		1 961.0		769.3				545.3			TOTAL
MEAN		34.4		63.3		25.6				17.6			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 1 430 ON MAY 29

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 33 900 ON MAY 29

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 42 30 N
LONG 112 52 30 W
DRAINAGE AREA 17 080 km^2
REGULATED FLOW SINCE 1910

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

OLDMAN RIVER NEAR LETHBRIDGE - STATION NO. 05AD007

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 29	10:15	274 M	7.0	1 690 K	16	22	35	52	69	85	92	99	100			BNW
JUN 08	09:30	274 M	10.0	704 K	9	13	21	33	49	68	89	98	99	100		BNW
JUN 15	18:55	316 M	18.0	736 K	10	16	28	42	57	75	89	95	98	100		BNW
JUN 17	08:50	325 M	14.0	727 K	10	16	27	37	53	73	90	97	99	99		BNW
JUL 03	09:45	256 M	16.0	739 K	16	20	34	48	64	83	95	99	100			BNW

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

OLDMAN RIVER NEAR WALDRON'S CORNER - STATION NO. 05AA023

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.650 B				1.45 B				1.84 B			1
2		0.610 B				1.35 B				1.88 B			2
3		0.570 B				1.25 B				1.92 B			3
4		0.530 B				1.10 B				1.96 B			4
5		0.495 B				1.00 B				2.00 B			5
6		0.590 B				0.980 B				2.04 B			6
7		0.690 B				0.980 B				2.08 B			7
8		0.810 B				0.970 B				2.12 B			8
9		0.950 B				0.980 B				2.16 B			9
10		1.10 B				1.00 B				2.20 B			10
11		1.20 B				1.10 B				2.14 B			11
12		1.32 B				1.21 B				2.07 B			12
13		1.40 B				1.31 B				2.00 B			13
14		1.52 B				1.42 B				1.93 B			14
15		1.60 B				1.52 B				1.86 B			15
16		1.65 B				1.62 B				1.79 B			16
17		1.55 B				1.80 B				1.70 B			17
18		1.45 B				2.00 B				1.60 B			18
19		1.35 B				2.12 B				1.67 B			19
20		1.25 B				2.10 B				1.75 B			20
21		1.15 B				2.02 B				1.82 B			21
22		1.05 B				1.94 B				1.90 B			22
23		1.25 B				1.86 B				1.97 B			23
24		1.50 B				1.78 B				2.05 B			24
25		1.74 B				1.70 B				2.12 B			25
26		1.95 B				1.73 B				2.20 B			26
27		2.05 B				1.77 B				2.27 B			27
28		1.95 B				1.80 B				2.35 B			28
29		1.85 B								2.42 B			29
30		1.70 B								2.50 B			30
31		1.60 B								2.60 B			31
TOTAL		39.075				41.860				62.91			TOTAL
MEAN		1.26				1.50				2.03			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		2.66 B								30.4	8	21.0	1
2		2.72 B			7.0	7.90	4 S	2.73		34.4	11	32.7	2
3		2.79 B				11.5	8	7.95		39.4	13 S	44.3	3
4		2.85 B			6.0	15.9	12 S	16.5		45.2	13	50.8	4
5		2.91 B				11.8	7 S	7.14		54.0	25	117	5
6		2.98 B			6.0	9.47	3 S	2.45					
7		3.04 B				9.27	2	1.60		57.2	37 S	183	6
8		3.10 B				9.49	3	2.46		49.9	42 S	181	7
9		3.45 B				9.67	4 S	3.34		44.2	22 S	84.0	8
10		3.80 B				8.34	3	2.16	8.0	47.2	11 S	44.9	9
11		4.14 B				7.06	2	1.22	8.0	50.8	14 S	61.4	10
12		4.49 B				6.72	2	1.16	9.5	58.4	20 S	101	11
13		4.83 B				10.2	3	2.64		64.6	27	151	12
14		4.90 B				12.6	4	4.35		67.1	32	186	13
15		4.85 B			8.0	18.1	6 S	9.38		70.2	36	218	14
16		4.85 B				23.9	14	28.9	8.0	70.4	39 S	237	15
17		4.85 B			5.0	27.4	15 S	35.5	8.0	71.6	39 S	241	16
18		4.85 B			6.0	28.1	10 S	20.3	9.0	64.4	27 S	150	17
19		5.05 B				31.9	16 S	44.1	11.0	56.7	18 S	88.2	18
20		5.35 B				30.7	12 S	31.8	11.0	54.1	16 S	74.8	19
21		5.85 B				28.7	6 S	14.9	10.0	54.8	15 S	71.0	20
22		6.60 B				33.2	8	22.9		54.5	15	70.6	21
23		7.60 B				37.4	15 S	48.5	10.0	51.8	14 S	62.7	22
24		8.40 B				40.4	16 S	55.8	10.0	47.6	12 S	49.4	23
25		8.80 B				38.9	12 S	40.3	10.0	44.0	10 S	38.0	24
26		8.79 B				50.5	41 S	179	10.0	42.3	11 S	40.2	25
27		8.64 B				54.1	43 S	201	12.0	39.3	10 S	34.0	26
28	4.0	8.52	6 S	4.42		39.0	27	91.0		41.9	14 S	50.7	27
29		8.91	6	4.62	3.0	31.0	11 S	29.5		39.2	11 S	37.3	28
30	5.0	7.44	4 S	2.57		26.8	6 S	13.9		37.2	9	28.9	29
31						24.6	5 S	10.6		41.3	15 S	53.5	30
						26.1	5 S	11.3					31
TOTAL		158.01				720.72		948.38		1 524.1		2 803.4	TOTAL
MEAN		5.27				23.2		30 6		50.8		93.4	MEAN

ALBERTA

OLDMAN RIVER NEAR WALDRON'S CORNER - STATION NO. 05AA023

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		38.4	10 S	33.2		7.21	2	1.25		4.48	1	0.39	1
2		35.6	8	24.6		7.20	2	1.24		4.38	1	0.38	2
3		32.7	7	19.8		7.16	2	1.24		4.31	1	0.37	3
4		29.8	6 S	15.4		6.83	2	1.18		4.89	1	0.42	4
5		27.8	5 S	12.0		6.29	2	1.09		6.00	1	0.52	5
6		25.4	4	8.78	14.0	6.18	2 S	1.07		5.11	1	0.44	6
7		23.6	4	8.16		6.18	2	1.06		4.80	1	0.41	7
8		22.1	4 S	7.64		6.13	2	1.06		4.63	1	0.40	8
9	11.0	20.8	3 S	5.39		6.12	2	1.06		4.50	1	0.39	9
10		19.4	3	5.03		6.13	2	1.06		4.57	1	0.39	10
11	13.0	19.3	4 S	6.32		5.77	2	1.00		4.74	1	0.41	11
12		17.2	4	5.94		5.62	2	0.97		4.73	1	0.41	12
13		16.4	4	5.67		5.55	2	0.96		4.98	2	0.86	13
14	13.0	15.8	4 S	5.46		6.29	2	1.09		4.87	2	0.84	14
15		15.2	4	5.25		5.96	2	1.03	5.0	4.78	2 S	0.83	15
16		14.1	3	3.65		5.59	2	0.97		4.91	2	0.85	16
17	12.0	13.1	3 S	3.40		5.34	1	0.46		4.91	2	0.85	17
18		12.1	3	3.14		5.17	1	0.45		4.77	2	0.82	18
19		11.4	2	1.97		5.00	1	0.43		4.68	2	0.81	19
20	14.0	10.8	2 S	1.87		4.90	1	0.42		4.62	2	0.80	20
21		10.5	3	2.72		4.85	1	0.42		4.63	2	0.80	21
22	14.0	9.80	3 S	2.54		4.77	1	0.41		4.77	2	0.82	22
23		9.36	3	2.43		4.84	1	0.42		4.67	2	0.81	23
24		8.97	2	1.55		4.95	1	0.43		4.59	2	0.79	24
25		8.64	2	1.49		4.67	1	0.40		4.52	2	0.78	25
26		8.29	1 S	0.72		4.98	1	0.43		5.76	2	1.00	26
27		7.95	1	0.69	10.0	5.22	1 S	0.45		7.26	2	1.25	27
28		7.74	1	0.67		4.79	1	0.41		6.30	2	1.09	28
29	16.0	7.62	2 S	1.32		4.71	1	0.41		6.04	2	1.04	29
30		7.41	2	1.28		4.76	1	0.41		5.77	2	1.00	30
31		7.23	2	1.25		4.61	1	0.40					31
TOTAL		513.51		199.33		173.73		23.68		149.97		20.97	TOTAL
MEAN		16.6		6.43		5.60		0.76		5.00		0.70	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		5.63				3.23 B				2.12 B			1
2		5.57				2.77 B				2.10 B			2
3		5.60				2.14 B				2.07 B			3
4		5.50				2.15 B				2.06 B			4
5		5.28				2.14 B				2.06 B			5
6		4.98				2.12 B				2.05 B			6
7		4.98				2.10 B				2.06 B			7
8		5.00				2.06 B				2.07 B			8
9		4.87				2.07 B				2.08 B			9
10		4.80				2.08 B				2.10 B			10
11		4.70				2.08 B				2.14 B			11
12		4.73				2.13 B				2.17 B			12
13		4.68				2.17 B				2.20 B			13
14		4.60				2.20 B				2.23 B			14
15		4.53				2.21 B				2.27 B			15
16		4.49				2.20 B				2.37 B			16
17		4.54				2.20 B				2.39 B			17
18		4.61				2.20 B				2.35 B			18
19		4.51				2.19 B				2.22 B			19
20		4.32				2.17 B				2.15 B			20
21		4.76				2.12 B				2.11 B			21
22		4.49				2.09 B				2.11 B			22
23		5.65				2.06 B				2.28 B			23
24		5.54				2.10 B				2.32 B			24
25		5.07				2.18 B				2.28 B			25
26		4.86				2.21 B				2.19 B			26
27		4.71				2.22 B				2.12 B			27
28		4.58				2.18 B				2.12 B			28
29		4.45				2.14 B				2.14 B			29
30		3.83 B				2.12 B				2.25 B			30
31		3.53 B								2.30 B			31
TOTAL		149.39				66.03				67.48			TOTAL
MEAN		4.82				2.20				2.18			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 48 50 N
LONG 114 11 00 W
DRAINAGE AREA 1 440 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

OLDMAN RIVER NEAR WALDRON'S CORNER - STATION NO. 05AA023

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	

DATA NOT AVAILABLE

ALBERTA

PEACE RIVER AT PEACE RIVER - STATION NO. 07HA001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		1 850 B				1 940 B				1 160 B			1
2		1 900 B				1 270 B				1 240 B			2
3		1 870 B				1 550 B				1 140 B			3
4		1 100 B				1 600 B				1 020 B			4
5		1 200 B				1 850 B				1 010 B			5
6		1 300 B				1 910 B				1 000 B			6
7		1 600 B				1 850 B				1 050 B			7
8		1 800 B				1 800 B				1 100 B			8
9		2 000 B				1 740 B				1 130 B			9
10		1 980 B				1 800 B				1 090 B			10
11		2 000 B				1 850 B				1 080 B			11
12		1 950 B				2 040 B				1 070 B			12
13		2 020 B				2 010 B				1 120 B			13
14		2 040 B				1 980 B				1 150 B			14
15		1 950 B				1 940 B				1 120 B			15
16		1 930 B				1 910 B				1 080 B			16
17		1 940 B				1 890 B				1 090 B			17
18		1 970 B				1 950 B				1 090 B			18
19		1 950 B				2 000 B				1 200 B			19
20		1 950 B				1 800 B				1 330 B			20
21		1 970 B				1 600 B				1 340 B			21
22		1 900 B				1 500 B				1 280 B			22
23		1 950 B				1 400 B				1 280 B			23
24		2 000 B				1 300 B				1 350 B			24
25		1 950 B				1 250 B				1 300 B			25
26		1 940 B				1 320 B				1 230 B			26
27		1 960 B				1 350 B				1 170 B			27
28		1 990 B				1 270 B				1 170 B			28
29		1 950 B								1 300 B			29
30		1 840 B								1 450 B			30
31		1 860 B							0.1	1 530 B	67 S	8 860	31
TOTAL		57 610				47 670				36 670			TOTAL
MEAN		1 860				1 700				1 180			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1 480 B				2 220 B	1 560	299 000		2 140	312 S	57 700	1
2		1 420 B				2 090 B	1 410	255 000		2 550	440	96 900	2
3		1 440 B				2 010 B	1 230	214 000		3 090	613	164 000	3
4		1 480 B				2 130	1 100	202 000		3 250	758	213 000	4
5		1 490 B				2 240	976	189 000		3 370 A	743	216 000	5
6		1 540 B				2 060	879	156 000					
7		1 570 B								3 260 E	614	173 000	6
8		1 630 B			5.0	1 870	920 S	149 000		3 140 A	483	131 000	7
9		1 630 B				2 090	1 030	186 000		2 830	391	95 600	8
10		1 640 B				2 390	1 080	223 000		2 440	332	70 000	9
					6.0	2 460	1 140 S	242 000		2 240	300 S	58 100	10
11		1 750 B				2 470	1 400	299 000					
12		1 700 B			8.0	3 000	1 870 S	485 000		2 280	294 S	57 900	11
13		1 730 B			8.0	3 240	1 650 S	462 000		2 520	327 S	71 200	12
14		1 790 B			11.0	3 460	1 700 S	508 000		2 700	592 S	138 000	13
15		1 760 B			10.0	3 490	1 500 S	452 000		2 840 A	765	188 000	14
										2 950 A	766 S	195 000	15
16		1 740 B			9.0	3 360	3 180 S	923 000					
17		1 720 B			11.0	3 280	2 200 S	623 000		3 030	848	222 000	16
18		1 620 B			9.0	3 370 A	1 450 S	422 000		2 960	861 S	220 000	17
19		1 640 B			10.0	3 500 A	1 400 S	423 000		2 570	623 S	138 000	18
20		1 610 B			10.0	3 870 A	1 390 S	465 000		2 410	488	102 000	19
										2 430	437	91 700	20
21		1 670 B			10.0	3 970	1 310 S	449 000					
22		1 780 B				3 350	1 070	310 000		2 380	397 S	81 600	21
23		1 810 B				3 080	849 S	226 000		2 390	397 S	82 000	22
24		1 900 B				2 810	782 S	190 000		2 370	433 S	88 700	23
25		2 020 B			10.0	2 570	565 S	125 000		2 260	416 S	81 200	24
										1 940	340 S	57 000	25
26		1 860 B			11.0	2 430	505 S	106 000					
27		1 950 B				2 770	618	148 000		1 720	254	37 700	26
28		2 050 B				2 620	527	119 000		1 600	189	26 100	27
29		2 120 B				2 370	370	75 800		1 520	178 S	23 400	28
30		2 170 B			13.0	2 070	248 S	44 400		1 540	176 S	23 400	29
31						1 970	241	41 000		1 660	279 S	40 000	30
													31
TOTAL		51 710				84 610		9 011 200		74 380		3 240 200	TOTAL
MEAN		1 720				2 730		291 000		2 480		108 000	MEAN

PEACE RIVER AT PEACE RIVER - STATION NO. 07HA001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1 520	262	34 400		1 430	249	30 800		1 970			1
2	18.0	1 530	194 S	25 600		1 510	404	52 700		1 580			2
3		1 560	166	22 400		3 160	3 910	1 070 000		1 590			3
4		1 550	172	23 000	11.0	5 730	9 140 S	4 520 000		1 790			4
5	16.0	1 760	429 S	65 200	11.0	5 330	5 210 S	2 400 000		1 640			5
6	17.0	2 270	1 410 S	277 000	12.0	4 190	1 670 S	605 000		1 400			6
7	15.0	2 880	1 850 S	460 000	14.0	3 180	2 280 S	626 000		1 410			7
8	17.0	2 750	1 300 S	309 000	15.0	2 530	1 410 S	308 000		1 350			8
9	17.0	2 540	865 S	190 000	18.0	2 120	1 040 S	190 000		1 480			9
10	18.0	2 150	592 S	110 000	17.0	1 860	820 S	132 000		1 860			10
11		1 870	378	61 100	18.0	1 670	634 S	91 500		2 350			11
12	19.0	1 710	270 S	39 900	16.0	1 610	538 S	74 800		2 560			12
13		1 520	194	25 500	15.0	1 640	503 S	71 300		2 170			13
14		1 380	258	30 800		1 440	603	75 000		1 930			14
15		1 360	467	54 900		1 640	435	61 600		1 960			15
16		6 240	3 820	2 060 000	13.0	1 400	267 S	32 300		1 650			16
17		10 800	5 100	4 760 000	13.0	1 220	224 S	23 600		1 620			17
18		6 380	4 320	2 380 000	14.0	1 850	706 S	113 000		1 780			18
19	14.0	4 460	3 940 S	1 520 000	15.0	2 190	734 S	139 000		1 830			19
20	14.0	3 500	2 890 S	874 000		2 320	590 S	118 000		1 840			20
21		2 980	1 960	505 000		2 400	630	131 000		1 660			21
22		2 540	1 350	296 000		2 160	870	162 000		1 670			22
23	13.0	2 310	1 020 S	204 000		2 130	1 090 S	201 000		1 530			23
24		2 570	891	198 000		2 150	1 100	204 000		1 320			24
25		2 620	805	182 000		2 170	999	187 000		1 340			25
26	18.0	2 270	766 S	150 000		2 180	876	165 000		1 500			26
27	18.0	2 030	580 S	102 000		2 170	735	138 000		1 580			27
28	18.0	1 810	481 S	75 200		2 180	610	115 000		1 620			28
29	20.0	1 660	378 S	54 200		2 200	554	105 000		1 660			29
30		1 530	357	47 200		2 230	528	102 000		1 380			30
31		1 450	302	37 800		2 210	505	96 400					31
TOTAL		83 500		15 174 200		72 200		12 381 000		51 020			TOTAL
MEAN		2 690		489 000		2 330		398 000		1 700			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1 650			3.0	1 100	25 S	2 380		1 810			1
2		1 910				985				1 710			2
3		1 920				1 320				1 810			3
4		2 000				1 350				1 700			4
5		2 070				1 360				1 590			5
6		2 040				1 220				1 250			6
7		2 010				1 350				1 330 B			7
8		1 990				1 140				1 450 B			8
9		2 040				1 250				1 690 B			9
10		2 030				1 490				1 760 B			10
11		2 020				1 510				1 820 B			11
12		2 010				1 610				1 800 B			12
13		2 030				1 470				1 790 B			13
14		1 990				1 530				1 660 B			14
15		1 500				1 640				1 610 B			15
16		1 500				1 670				1 580 B			16
17		1 570				1 640				1 770 B			17
18		1 410				1 670				1 780 B			18
19		1 320				1 640				1 650 B			19
20		1 460				1 650				1 630 B			20
21		1 610				1 580				1 630 B			21
22		1 670				1 770				1 620 B			22
23		1 390				2 100				1 690 B			23
24		1 400				2 330				1 580 B			24
25		1 320				2 230				1 580 B			25
26		1 210				1 850				1 620 B			26
27		1 370				1 900				1 570 B			27
28		1 260				1 920				1 540 B			28
29		1 270				1 820				1 390 B			29
30		1 260				1 820				1 490 B			30
31		1 310								1 510 B			31
TOTAL		51 540				47 915				50 410			TOTAL
MEAN		1 660				1 600				1 630			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 9 140 ON AUG 04

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 4 760 000 ON JUL 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 14 41 N
LONG 117 18 46 W
DRAINAGE AREA 186 000 km^2
REGULATED FLOW SINCE 1968

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

PEACE RIVER AT PEACE RIVER - STATION NO. 07HA001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 12	15:55	3 130	8.0	1 910 N	17	27	38	51	71	88	97	99	100			BNW

N - SAMPLES COLLECTED IN SEVERAL VERTICALS

ALBERTA

RED DEER RIVER AT DRUMHELLER - STATION NO. 05CE001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		7.00 B				4.80 B				6.13 B	51	27.0	1
2		6.80 B				4.70 B				6.80 B	52	30.6	2
3		7.00 B				4.60 B				6.40 B	52	28.8	3
4		7.00 B				4.50 B				6.00 B	51	26.4	4
5		7.00 B				4.40 B				5.79 B	50	25.0	5
6		7.00 B				4.30 B				5.51 B	49	23.3	6
7		6.17 B				4.30 B				6.17 B	50	26.7	7
8		6.50 B				4.40 B				6.85 B	50	29.6	8
9		7.50 B				4.50 B				7.29 B	51	32.1	9
10		8.00 B				4.80 B				7.58 B	51	33.4	10
11		8.50 B				5.90 B				8.02 B	52	36.0	11
12		10.4 B				5.30 B				9.01 B	52	40.5	12
13		9.00 B				5.00 B				8.66 B	53	39.7	13
14		8.50 B				5.50 B				9.32 B	54	43.5	14
15		8.50 B				6.20 B				10.9 B	55	51.8	15
16		8.00 B				7.20 B				11.9 B	56	57.6	16
17		7.50 B				9.80 B				11.0 B	54	51.3	17
18		7.25 B				8.56 B			0.1	8.88 B	51 S	39.1	18
19		7.00 B				7.80 B				10.0 B	51	46.1	19
20		6.50 B				6.06 B				9.89 B	51	43.6	20
21		6.00 B				5.61 B				7.39 B	50	31.9	21
22		5.60 B				7.24 B				10.3 B	53	47.2	22
23		5.40 B				6.60 B				10.0 B	58	50.1	23
24		5.00 B				5.80 B				12.0 B	60	62.2	24
25		5.50 B				5.40 B				11.0 B	55	53.3	25
26		5.80 B				5.00 B				10.0 B	56	48.4	26
27		6.47 B				5.30 B				12.0 B	58	60.1	27
28		6.00 B				5.88 B				17.0 B	63	92.5	28
29		5.50 B								22.0 B	64	122	29
30		5.25 B								20.0 B	62	107	30
31		5.00 B								19.0 B	55	90.3	31
TOTAL		212.64				159.45				312.79		1 494.1	TOTAL
MEAN		6.86				5.69				10.1		48.2	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		18.0 B	53	82.4		110	142	1 350	18.3	71.0	110 S	675	1
2		17.0 B	52	76.4	10.6	94.5	106 S	865		66.5	72	414	2
3		20.0 B	53	91.6		83.2	83	597	20.0	67.9	60 S	352	3
4		19.1 B	53	87.5		73.8	70	446		70.6	68	415	4
5		20.5 B	53	93.9		68.4	70	414		72.7	73	459	5
6		21.3 B	53	97.5	10.0	62.3	96 S	517		83.6	175	1 260	6
7		16.4 B	52	73.7		56.0	91	440	14.4	79.8	183 S	1 260	7
8		15.4 B	52	69.2		52.1	68	306		89.8	210	1 630	8
9		17.2 B	51	75.8		49.4	46	196	16.7	96.6	206 S	1 720	9
10		22.0 B	71	135	13.3	48.5	31 S	130		94.9	195	1 600	10
11		51.8 B	204	913		45.0	22	85.5	20.0	92.7	189 S	1 510	11
12		53.4 B	235	1 080	14.4	41.7	20 S	72.1		97.0	209	1 750	12
13		51.7 B	227	1 010		40.7	17	59.8		101	212	1 850	13
14		75.0 B	305	1 980		45.0	18	70.0		105	217	1 970	14
15		69.0 B	245	1 460		54.9	27	128	22.8	105	220 S	2 000	15
16		91.2 B	445	3 510	15.6	56.0	32 S	155		105	239	2 170	16
17		283 B	904 S	19 900		54.1	23	108	22.2	112	291 S	2 820	17
18		156 B	992 S	13 200		56.1	31	150		109	300	2 830	18
19		224 B	1 030 S	19 900	15.0	67.0	558 S	3 230		104	281	2 520	19
20		142	876	10 720		68.1	729	4 290		91.1	257	2 020	20
21	8.0	139	835 S	10 000		69.2	749	4 480		86.6	232	1 740	21
22	7.8	168	891 S	12 900		71.2	840	5 170		89.5	208	1 610	22
23	6.1	217	1 360 S	25 500	16.1	68.4	855 S	5 050	22.8	89.3	186 S	1 440	23
24		265	1 870	42 880		62.8	698	3 790		89.7	192	1 490	24
25	5.0	298	1 390 S	35 800		62.5	504	2 720	19.4	96.6	269 S	2 250	25
26	6.7	289	975 S	24 300		60.8	249	1 310		88.7	225	1 720	26
27		235	697	14 200		65.3	121	683		85.6	282	2 090	27
28	10.0	199	454 S	7 810		69.9	171	1 030	17.8	82.9	596 S	4 270	28
29		166	306	4 390	11.7	65.2	146 S	822		89.8	1 400	10 900	29
30	11.7	130	204 S	2 290		77.5	175	1 170		124	3 150	33 700	30
31					15.5	78.1	124 S	837					31
TOTAL		3 408.0		250 526.0		1 977.7		40 671.4		2 737.9		92 435	TOTAL
MEAN		114		8 350		63.8		1 310		91.3		3 080	MEAN

ALBERTA

RED DEER RIVER AT DRUMHELLER - STATION NO. 05CE001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		127	3 340	36 600	22.2	96.4	126 S	1 030		55.2	40	191	1
2		126	3 350	36 500		92.2	120	956	20.0	51.0	22 S	96.9	2
3	18.9	130	3 330 S	37 400		89.5	112	866		47.4	22	90.1	3
4		141	2 630	32 000	21.7	89.8	105 S	815		46.2	764	3 050	4
5		199	1 780	30 600		85.2	88	648	16.1	48.4	3 120 S	13 000	5
6	16.1	323	1 030 S	28 700		79.2	71	486	15.0	46.8	866 S	3 500	6
7		464	1 370	54 900		72.0	54	336	18.3	48.3	145 S	605	7
8	17.2	465	1 950 S	78 300		64.6	37	207		58.7	95	482	8
9		378	1 130	36 900	21.1	59.3	19 S	97.3	19.4	55.1	48 S	229	9
10	19.4	330	406 S	11 600		56.3	12	58.4		52.5	24	109	10
11		297	273	7 010		54.7	11	52.0		49.0	19	80.4	11
12	22.2	245	219 S	4 640	22.0	54.3	11 S	51.6	14.4	47.5	15 S	61.6	12
13		204	180	3 170		55.8	13	62.7		46.2	14	55.9	13
14	22.8	153	152 S	2 010	19.4	53.5	77 S	356		43.8	13	49.2	14
15	22.0	125	108 S	1 170	18.3	53.4	771 S	3 560		40.9	12	42.4	15
16		113	74	722		52.7	404	1 840	9.0	40.1	11 S	38.1	16
17		124	103	1 100		49.4	146	623		38.3	8	26.5	17
18	20.0	113	63 S	615		48.2	55	229	13.9	36.4	7 S	22.0	18
19		98.5	82	698		46.9	22	89.1		35.8	6	18.6	19
20		93.6	239	1 930	20.0	44.9	13 S	50.4		35.0	6	18.1	20
21	19.4	87.1	230 S	1 730		43.5	13	48.9	14.4	33.9	6 S	17.6	21
22		101	205	1 790		42.1	16	58.2		32.9	6	17.1	22
23	18.9	188	222 S	3 610	20.6	41.2	18 S	64.1	16.7	31.9	5 S	13.8	23
24		215	255	4 740		40.6	32	112		31.0	5	13.4	24
25		189	233	3 800		40.5	74	259		30.6	5	13.2	25
26		156	171	2 300	16.1	43.3	153 S	572		31.5	9	24.5	26
27	20.0	150	106 S	1 370		43.3	86	322		32.1	13	36.1	27
28		162	111	1 550		43.4	41	154		34.1	19	56.0	28
29		129	96	1 070	15.0	52.2	81 S	365		38.2	53	175	29
30	22.2	112	86 S	832		53.0	48	220	7.0	45.1	195 S	760	30
31		99.9	88	760	17.8	55.6	20 S	96.1					31
TOTAL		5 838.1		430 117		1 797.0		14 686.8		1 263.9		22 892.5	TOTAL
MEAN		188		13 900		58.0		474		42.1		763	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		47.3	131	535		28.9				7.14 B			
2	7.8	48.0	40 S	166		26.4				7.29 B			1
3		46.9	33	134		20.7				6.94 B			2
4		47.2	70	285		20.0 B				6.95 B			3
5	8.9	45.7	108 S	426		18.9				7.17 B			4
6		48.2	120	500		18.4				8.11 B			5
7		51.7	111	496		20.5 B				8.78 B			6
8		49.9	102	440		21.9 B				9.28 B			7
9		48.7	93	391		17.2 B				9.47 B			8
10		45.7	85	336		14.8 B				9.42 B			9
11		42.8	75	277		14.4 B				9.44 B			10
12		40.1	54	187		13.5 B				9.62 B			11
13	11.1	38.0	15 S	49.2		12.5 B				9.69 B			12
14		36.8	8	25.4		11.5 B				9.40 B			13
15		35.1	8	24.3		10.6 B				8.85 B			14
16		34.3	8	23.7		11.5 B				9.00 B			15
17		33.4	8	23.1		13.0 B				9.40 B			16
18		33.2	8	22.9		12.0 B				9.60 B			17
19		32.6	8	22.5		11.5 B				9.40 B			18
20		32.4	8	22.4		11.0 B				8.80 B			19
21		32.6	8	22.5		10.3 B				8.20 B			20
22		32.2	8	22.3		8.87 B				8.60 B			21
23	5.6	31.5	8 S	21.8		8.40 B				9.12 B			22
24		31.3	18	48.7		9.00 B				9.20 B			23
25	6.7	31.3	39 S	105		9.73 B				9.25 B			24
26		31.0	29	77.7		10.5 B				9.31 B			25
27	6.0	31.2	11 S	29.7		10.3 B				9.42 B			26
28		31.0	9	24.1		9.25 B				9.36 B			27
29		30.5	9	23.7		7.84 B				9.55 B			28
30		29.6	9	23.0		7.22 B				9.27 B			29
31		29.1	9	22.6						9.43 B			30
TOTAL		1 179.3		4 807.6		420.61				274.46			31
MEAN		38.0		155		14.0				8.85			TOTAL MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 3 350 ON JUL 02

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 78 300 ON JUL 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 28 08 N
LONG 112 42 30 W
DRAINAGE AREA 24 800 km^2
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

RED DEER RIVER AT DRUMHELLER - STATION NO. 05CE001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - FONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 25	11:00	298	M	5.0	1	130 K	7	12	24	39	55	79	96	99	100			[illegible]
MAY 19	18:25	67.0	M	15.0		507 K	32	41	77	91	95	98	99	99	100			[illegible]
JUL 08	09:45	465	M	17.2	1	300 K	33	43	58	74	87	93	97	100				[illegible]
SEP 05	16:35	48.4	M	16.1	2	740 K	59	77	88	97	99	99	100					[illegible]
SEP 05	16:40	48.4	M	16.1	2	660 K	57	71	86	95	98	99	100					[illegible]

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ALBERTA

RED DEER RIVER AT RED DEER - STATION NO. 05CC002

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		4.00 B				6.65 B				6.50 B			1
2		3.90 B				6.40 B				6.20 B			2
3		3.80 B				6.40 B				6.10 B			3
4		3.70 B				6.55 B				6.20 B			4
5		3.45 B				6.80 B				6.45 B			5
6		3.50 B				6.95 B				6.55 B			6
7		3.65 B				6.75 B				6.50 B			7
8		3.77 B				6.70 B				6.50 B			8
9		3.80 B				7.00 B				6.55 B			9
10		3.90 B				7.50 B				6.70 B			10
11		4.10 B				7.45 B				6.85 B			11
12		4.30 B				7.30 B				7.00 B			12
13		4.55 B				7.35 B				7.20 B			13
14		5.00 B				7.45 B				7.30 B			14
15		5.60 B				7.55 B				7.40 B			15
16		6.25 B				7.65 B				7.20 B			16
17		7.05 B				7.60 B				6.85 B			17
18		7.20 B				7.55 B				7.40 B			18
19		6.80 B				7.60 B				7.40 B			19
20		6.50 B				8.05 B				7.30 B			20
21		5.80 B				8.85 B				7.00 B			21
22		6.05 B				8.50 B				6.65 B			22
23		6.35 B				8.40 B				6.45 B			23
24		6.50 B				8.00 B				6.45 B			24
25		6.70 B				7.80 B				6.60 B			25
26		6.45 B				7.80 B				6.80 B			26
27		5.90 B				7.90 B				7.50 B			27
28		5.90 B				7.75 B				8.35 B			28
29		6.15 B								9.20 B			29
30		6.50 B								10.5 B			30
31		6.70 B								13.5 B			31
TOTAL		163.82				207.85				225.15			TOTAL
MEAN		5.28				7.42				7.26			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		15.0 B			7.0	70.4	44 E	268	13.0	66.1	43 E	246	1
2		15.4 B			8.0	63.2	46 E	251	14.0	70.8	43 E	263	2
3		15.0 B			8.0	57.8	37 E	185	14.0	70.7	59 E	360	3
4		13.9 B			5.0	54.2	26 E	122	14.0	76.0	76 E	499	4
5		11.9 B			7.0	46.7	38 E	153	12.0	82.4	114 E	812	5
6		9.80 B			6.0	42.7	93 E	343	9.0	82.9	101 E	723	6
7		9.40 B			6.0	38.7	67 E	224	8.0	96.3	143 E	1 190	7
8		9.20 B			5.0	38.9	29 E	97.5	9.0	97.5	131 E	1 100	8
9		9.20 B			5.0	36.6	23 E	72.7	11.0	93.9	93 E	755	9
10		9.80 B			7.0	30.7	12 E	31.8	13.0	97.1	83 E	696	10
11		12.5 B			8.0	29.6	14 E	35.8	13.0	103	98 E	872	11
12		21.5 B			10.0	34.8	17 E	51.1	15.0	109	136 E	1 280	12
13		43.0 B			10.0	46.3	31 E	124	17.0	113	203 E	1 980	13
14		100 B			10.0	49.1	44 E	187	17.0	110	219 E	2 080	14
15		163 B			12.0	47.2	31 E	126	17.0	115	225 E	2 240	15
16		153 B			11.0	47.5	26 E	107	15.0	120	387 E	3 600	16
17		141 B			12.0	51.8	32 E	143	15.0	118	267 E	2 520	17
18		127 B			12.0	57.8	55 E	275	15.0	107	171 E	1 580	18
19		115 B			9.0	58.6	54 E	273	17.0	99.7	103 E	843	19
20		104 B			10.0	58.3	54 E	272	18.0	99.3	98 E	798	20
21	1.0	115 B	160 E	1 590	12.0	54.3	46 E	216	18.0	97.8	111 E	938	21
22	3.3	105 B	394 E	3 570	14.0	51.7	38 E	170	19.0	95.9	99 E	820	22
23	2.0	143 B	860 E	10 600	11.0	53.2	41 E	188	19.0	96.2	92 E	765	23
24	2.0	184 B	716 E	11 800	12.0	53.1	37 E	170	18.0	108	168 E	1 570	24
25	3.0	181	429 E	6 710	13.0	48.3	38 E	159	13.0	90.6	75 E	587	25
26	3.0	164	294 E	3 600	10.0	57.6	53 E	264	13.0	89.3	66 E	509	26
27	5.0	150	157 E	2 030	8.0	60.2	70 E	364	15.0	92.9	65 E	522	27
28	6.0	120	101 E	1 050	7.0	68.1	67 E	396	14.0	103	246 E	2 190	28
29	6.0	92.6	71 E	568	8.0	80.0	174 E	1 200	13.0	146	722 E	9 110	29
30	5.0	81.5	60 E	422	10.0	73.5	99 E	629	12.0	132	267 E	3 050	30
31					11.0	66.0	58 E	331					31
TOTAL		2 436.70				1 626.9		7 426.9		2 969.3		44 498	TOTAL
MEAN		81.2				52.5		240		99.0		1 480	MEAN

RED DEER RIVER AT RED DEER - STATION NO. 05CC002

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	16.0	118	145 S	1 480	19.0	72.5	15 S	94.8		35.4	13	39.8	1
2	16.0	116	115 S	1 150		71.9	12	74.5		32.7	10 S	28.3	2
3	15.0	121	126 S	1 320	16.0	73.0	18 S	114		30.0	7	18.1	3
4	13.0	147	195 S	2 480		67.9	23	135	15.0	31.0	13 S	34.8	4
5	12.0	223	669 S	12 900	15.0	61.7	16 S	85.3		34.6	16	47.8	5
6	13.0	269	837 S	19 500		53.8	13	60.4	13.0	40.3	22 S	76.6	6
7	15.0	247	388 S	8 280	17.0	47.5	11 S	45.1		40.1	23	79.7	7
8	17.0	240	237 S	4 910		44.0	9	34.2	15.0	38.0	20 S	65.7	8
9	17.0	243	212 S	4 450	18.0	40.3	8 S	27.9		35.9	16	69.6	9
10	18.0	232	157 S	3 150		38.1	8	26.3	13.0	34.8	13 S	39.1	10
11	19.0	189	102 S	1 670	19.0	39.8	11 S	37.8		34.4	13	38.6	11
12	19.0	150	71 S	920		38.3	11	36.4	10.0	33.0	12 S	34.2	12
13	19.0	107	50 S	462	16.0	36.4	8 S	25.2		29.5	10	25.5	13
14	18.0	89.0	39 S	300		35.5	10	30.7	8.0	29.2	11 S	27.8	14
15	16.0	82.3	34 S	242	13.0	33.7	12 S	34.9		28.2	10	24.4	15
16	15.0	80.7	29 S	202		31.6	10	27.3	9.0	27.7	10 S	23.9	16
17	16.0	71.7	23 S	142	15.0	30.6	7 S	18.5	9.0	27.1	9 S	21.1	17
18	17.0	69.0	25 S	149		29.5	7	17.8		26.1	8	18.0	18
19	17.0	64.2	19 S	105	18.0	28.0	6 S	14.5	11.0	25.4	7 S	15.4	19
20	15.0	63.8	19 S	105		27.0	5	11.7		24.7	6	12.8	20
21	13.0	95.9	137 S	1 140	17.0	26.3	4 S	9.09	9.0	23.8	5 S	10.3	21
22	14.0	167	552 S	7 960		26.7	4	9.23		22.2	5	9.59	22
23	15.0	163	222 S	3 130	16.0	27.5	6 S	14.3	11.0	21.1	7 S	12.8	23
24	16.0	143	117 S	1 450		27.4	8	18.9		20.9	7	12.6	24
25	16.0	123	85 S	903	14.0	27.2	6 S	14.1	8.0	20.8	5 S	8.99	25
26	16.0	121	93 S	972		28.3	6	14.7		21.5	4	7.43	26
27	17.0	110	60 S	570	12.0	33.7	8 S	23.3	8.0	27.5	9 S	21.4	27
28	18.0	95.6	39 S	322		38.1	14	46.1		34.9	21	63.3	28
29	19.0	85.9	21 S	156	14.0	41.4	20 S	71.5	6.0	36.6	21 S	66.4	29
30	19.0	80.3	19 S	132		43.3	22	82.3		37.5	18	58.3	30
31		76.4	17	112	12.0	38.7	16 S	53.5					31
TOTAL		4 183.8		80 764		1 259.7		1 308.52		904.9		992.31	TOTAL
MEAN		135		2 610		40.6		42.2		30.2		33.1	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	6.0	36.2	16 S	63.8		20.4				7.00 B			1
2		34.5	13	38.8		21.8				6.98 B			2
3	7.0	35.1	15 S	45.5		18.6				6.95 B			3
4		35.1	12	36.4		17.2				6.90 B			4
5	5.0	35.3	9 S	27.4		19.4				6.80 B			5
6		36.6	12	37.9		18.8							6
7	5.0	37.0	11 S	35.2		16.0				6.75 B			7
8		35.8	11	34.0		13.0				6.70 B			8
9	4.0	33.6	12 S	34.8		11.7				6.65 B			9
10		31.5	12	32.7		13.0 B				6.70 B			10
11	7.0	30.2	11 S	28.7		16.5 B				6.75 B			11
12		29.7	10	25.7		18.4 B				6.80 B			12
13	7.0	28.9	8 S	20.0		17.7 B				7.00 B			13
14		27.7	6	14.4		13.2 B				7.03 B			14
15	9.0	27.2	8 S	18.8		13.4 B				7.05 B			15
16		27.0	7	16.3		13.3 B				7.00 B			16
17	5.0	27.0	6 S	14.0		11.3 B				6.88 B			17
18		26.6	7	16.1		9.84 B				6.73 B			18
19	2.0	25.9	6 S	13.4		9.91 B				6.55 B			19
20		25.8	4	8.92		7.08 B				6.38 B			20
21	2.0	25.2	3 S	6.53		7.04 B				6.25 B			21
22		25.1	4	8.67		6.52 B				6.20 B			22
23	3.0	25.5	3 S	6.61		7.04 B				6.20 B			23
24		25.4	2	4.39		6.00 B				6.24 B			24
25	4.0	25.6	2 S	4.42		5.46 B				6.30 B			25
26		25.7	3	4.44		5.37 B				6.40 B			26
27	0.1	25.5	3 S	6.61		5.82 B				6.51 B			27
28		24.7	3	6.40		6.40 B				6.72 B			28
29	2.5	24.1	4 S	8.33		6.60 B				6.78 B			29
30	2.0	23.2	4 S	8.02		7.04 B				6.78 B			30
31		20.8	3	5.39						6.75 B			31
										6.65 B			
TOTAL		897.5		612.63		359.82				207.38			TOTAL
MEAN		29.0		19.8		12.0				6.69			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 860 ON APR 23

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 19 500 ON JUL 06

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 16 35 N
LONG 113 48 45 W
DRAINAGE AREA 11 600 km^2
NATURAL FLOW

ALBERTA

RED DEER RIVER AT RED DEER - STATION NO. 05CC002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 24	09:35	184 M	2.0	740 K	5	8	17	29	42	64	88	97	99	100		BNW
JUN 29	09:40	146 M	13.0	805 K	16	18	32	52	71	86	97	100				BNW
JUL 06	09:35	269 M	13.0	909 K	14	19	31	44	60	77	92	99	100			BNW

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

RED DEER RIVER NEAR BINDLOSS - STATION NO. 05CK004

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		3.40 B				3.05 B				6.80 B			1
2		3.75 B				3.10 B				6.55 B			2
3		3.80 B				3.25 B				6.45 B			3
4		3.90 B				3.40 B				6.45 B			4
5		3.84 B				3.60 B				6.55 B			5
6		3.70 B				3.80 B				6.75 B			6
7		3.30 B				4.05 B				6.85 B			7
8		3.02 B				4.10 B				6.95 B			8
9		2.75 B				4.15 B				7.00 B			9
10		2.55 B				4.10 B				7.10 B			10
11		2.48 B				4.15 B				7.25 B			11
12		2.55 B				4.20 B				7.45 B			12
13		2.75 B				4.40 B				7.70 B			13
14		2.90 B				4.50 B				7.80 B			14
15		3.15 B				4.54 B				8.10 B			15
16		3.25 B				4.50 B				8.45 B			16
17		3.25 B				4.50 B				8.75 B			17
18		3.20 B				4.50 B				8.90 B			18
19		2.90 B				4.55 B				8.85 B			19
20		2.55 B				4.75 B				8.75 B			20
21		2.35 B				5.00 B				8.60 B			21
22		2.20 B				5.35 B				8.30 B			22
23		2.20 B				5.75 B				8.20 B			23
24		2.20 B				6.20 B				8.20 B			24
25		2.33 B				6.95 B				8.25 B			25
26		2.55 B				7.25 B				8.50 B			26
27		2.75 B				7.25 B				9.05 B			27
28		2.90 B				7.20 B				9.80 B			28
29		3.00 B							11.8	B			29
30		3.00 B							14.9	B			30
31		3.00 B							17.8	B			31
TOTAL		91.47				132.14				262.85			TOTAL
MEAN		2.95				4.72				8.48			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		20.8 B			13.0	168 A	859 S	12 500	15.0	75.0	1 630 S	10 600	1
2		23.5 B			11.0	140 A	604 S	7 310		78.9	1 260	8 590	2
3		25.5 B			14.0	115 A	543 S	5 400	21.0	85.2	551 S	4 060	3
4		26.8 B			11.0	103 A	420 S	3 740	19.0	84.1	282 S	2 050	4
5		26.0 B			9.0	92.8 A	396 S	3 180		81.4	407	2 860	5
6		24.5 B			9.0	84.0 A	319 S	2 320		83.7	653	4 720	6
7		22.8 B				77.7 A	251	1 690	14.0	87.7	704 S	5 330	7
8		22.1 B			7.0	72.2 A	212 S	1 320	15.0	89.0	472 S	3 630	8
9		23.5 B				67.6 A	160	935		97.0	372	3 120	9
10		27.0 B			12.0	63.1 A	102 S	556	18.0	96.3	361 S	3 000	10
11		33.0 B				59.6 A	98	484	17.0	102	339 S	2 990	11
12		41.0 B			17.0	56.5 A	141 S	688	24.0	111	430 S	4 120	12
13		48.0 B				55.0 A	133	632	23.0	115	433 S	4 300	13
14		63.0 B			19.0	54.1 A	114 S	533	23.0	113	588 S	5 740	14
15		82.5 B				51.8 A	96	430	24.0	117	576 S	5 320	15
16	3.0	103 B	1 570 S	14 000	17.0	49.1 A	77 S	327	26.0	121	367 S	3 840	16
17	3.0	126	1 380 S	15 000		50.9 A	70	308	20.0	122	352 S	3 710	17
18		149	2 630	33 900	19.0	53.8 A	116 S	539	24.0	117	357 S	3 610	18
19		211	3 740	68 200		58.3 A	187	992	21.0	116	474 S	4 750	19
20		186	2 560	41 100	19.0	63.1 A	253 S	1 380	23.0	123	651 S	6 790	20
21	3.8	209	2 920 S	52 700		66.7 A	284	1 640	24.0	122	316 S	3 330	21
22	8.0	183 A	1 920 S	30 400	21.0	69.8 A	307 S	1 850	24.0	116	402 S	4 030	22
23	8.0	154 A	1 940 S	25 800		71.6 A	451	2 790	21.0	106	392 S	3 590	23
24	7.0	151 A	1 810 S	23 600	17.0	73.3 A	711 S	4 500	19.0	103	154 S	1 370	24
25	9.0	187 A	1 570 S	25 400	20.0	76.2 A	765 S	5 040	19.0	105	269 S	2 440	25
26	10.0	230 A	1 680 S	33 400	14.5	76.2	523 S	3 440	23.0	105	360 S	3 270	26
27	9.8	265 A	1 670 S	38 200		75.4	689	4 490	21.0	113 A	286 S	2 770	27
28	10.0	272 A	1 530 S	36 000	11.0	75.8	723 S	4 740	18.0	133 A	504 S	5 750	28
29	9.0	239 A	1 560 S	32 200		76.2	716	4 710	17.0	135 A	776 S	8 380	29
30	11.0	197 A	1 230 S	20 900	12.0	81.6	715 S	5 040	23.0	130 A	648 S	6 720	30
31					10.0	80.0	935 S	6 460					31
TOTAL		3 372.0				2 358.9		89 914		3 161.3		133 280	TOTAL
MEAN		112				76.1		2 900		105		4 440	MEAN

ALBERTA

RED DEER RIVER NEAR BINDLOSS - STATION NO. 05CK004

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	20.0	121 A	577 S	6 030	25.0	181	313 S	3 810	20.0	60.5	290 S	1 520	1
2	20.0	161 A	821 S	10 000	22.0	128	404 S	4 470		63.4	219	1 200	2
3	20.0	200 A	2 490 S	43 000	20.0	122	390 S	4 110	23.0	64.5	156 S	869	3
4	18.0	176 A	3 250 S	49 400	21.0	115	1 160 S	11 500		65.3	141	796	4
5	16.0	178 A	1 510 S	23 200	21.0	109	362 S	3 410	17.0	64.8	122 S	683	5
6	17.0	172 A	2 420 S	36 000	24.0	106	309 S	2 830		62.7	125	677	6
7	20.0	199 A	3 260 S	56 100	24.0	104	282 S	2 530		59.0	129	658	7
8	20.8	288 A	3 360 S	83 600	22.0	99.8	366 S	3 160	20.0	59.2	131 S	670	8
9	19.5	448 A	2 050 S	79 300	20.0	94.1	311 S	2 530		58.0	201	1 010	9
10	19.5	700 A	1 020 S	61 700	20.0	89.9	275 S	2 140	15.0	58.0	473 S	2 370	10
11	20.0	689 A	886 S	52 700		83.8	263	1 900		59.7	560	2 890	11
12	21.5	361 A	950 S	29 600	21.0	78.7	254 S	1 730	14.0	63.0	420 S	2 290	12
13	23.0	319 A	746 S	20 600		76.7	296	1 960		61.8	283	1 510	13
14	21.5	279 A	685 S	16 500	16.0	73.3	347 S	2 200	10.5	59.3	156 S	799	14
15	18.0	248 A	711 S	15 000		71.0	268	1 640		57.3	120	594	15
16	12.0	194 A	886 S	14 900	25.0	71.8	170 S	1 050	13.0	56.6	116 S	567	16
17	17.0	155 A	1 020 S	13 700		70.6	159	970		55.8	92	444	17
18	22.0	137 A	494 S	5 850	23.0	69.9	159 S	960	15.0	53.6	56 S	259	18
19	23.0	129 A	329 S	3 670		68.5	190	1 120		51.2	56	248	19
20	19.0	134 A	731 S	8 460	20.0	66.4	230 S	1 320	17.0	50.6	67 S	293	20
21	21.0	123 A	258 S	2 740		62.5	212	1 140		49.2	69	293	21
22	20.0	113 A	283 S	2 760	21.0	61.0	163 S	859	17.0	47.9	64 S	265	22
23	21.0	106 A	217 S	1 990	20.0	60.5	111 S	580		47.4	65	266	23
24	22.0	100 A	204 S	1 760	16.0	59.0	84 S	428	14.5	46.1	121 S	482	24
25	21.0	114 A	381 S	3 750		58.0	96	481		44.0	1 600	6 080	25
26	20.0	203 A	1 350 S	23 700	14.0	56.9	114 S	560	11.0	43.6	4 750 S	17 900	26
27	20.0	221 A	3 180 S	60 700		55.9	129	623		44.5	5 830	22 400	27
28	21.5	185	868 S	13 900	17.0	55.5	141 S	676	5.0	51.1	5 080 S	22 400	28
29	21.0	171	740 S	10 900		55.4	141	675		53.4	3 250	15 000	29
30	23.0	169	501 S	7 320	16.0	56.2	141 S	685	5.0	54.0	1 560 S	7 280	30
31	25.0	160	466 S	6 440		57.6	215	1 070					31
TOTAL		6 929		765 270		2 477.6		63 117		1 665.5		112 713	TOTAL
MEAN		224		24 700		79.9		2 040		55.5		3 760	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m³/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		58.7	1 370	6 470		37.5	114	369		7.50 B			1
2	7.0	54.0	1 330 S	6 210		36.9	84 S	268		7.45 B			2
3		55.8	1 300	6 270		35.4				6.85 B			3
4	8.0	57.3	1 220 S	6 040		34.1				6.60 B			4
5	7.0	57.2	688 S	3 400		33.4				6.50 B			5
6		57.3	365	1 810		35.8				6.45 B			6
7	10.0	56.6	307 S	1 500		32.3				6.35 B			7
8		56.3	242	1 180		29.1				6.25 B			8
9	9.0	56.2	231 S	1 120		29.0				6.30 B			9
10		59.5	236	1 210		28.1				6.40 B			10
11	11.0	60.8	246 S	1 290		22.2				6.55 B			11
12		60.5	250	1 310		18.5 B				6.70 B			12
13	12.0	58.9	236 S	1 200		11.7 B				6.80 B			13
14		56.3	184	895		10.1 B				6.76 B			14
15	13.0	52.9	128 S	585		9.50 B				6.55 B			15
16		50.6	128	560		9.80 B				6.35 B			16
17		49.7	182	610		10.3 B				6.10 B			17
18	5.0	49.0	157 S	665		11.6 B				5.95 B			18
19		48.0	165	684		11.7 B				5.85 B			19
20	6.0	46.2	173 S	691		11.5 B				5.75 B			20
21		44.9	182	706		10.9 B				5.75 B			21
22	7.0	44.1	175 S	667		9.90 B				5.85 B			22
23		43.3	133	498		9.00 B				6.05 B			23
24	8.0	42.3	106 S	387		8.05 B				6.25 B			24
25		41.4	110	393		7.24 B				6.40 B			25
26	10.0	40.7	110 S	415		8.10 B				6.55 B			26
27		39.6	117	400		8.50 B				6.75 B			27
28	7.0	38.7	106 S	354		8.40 B				7.00 B			28
29		38.5	127	422		8.20 B				7.35 B			29
30	5.0	38.4	158 S	524		7.75 B				7.70 B			30
31		38.2	143	472						8.10 B			31
TOTAL		1 547.9		48 938		544.54				203.76			TOTAL
MEAN		49.9		1 580		18.2				6.57			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 5 830 ON SEP 27

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 83 600 ON JUL 08

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 54 10 N
LONG 110 17 50 W
DRAINAGE AREA 44 700 km²
REGULATED FLOW SINCE 1908

RED DEER RIVER NEAR BINDLOSS - STATION NO. 05CK004

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - GUMIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 21	17:00	209 H	5.0	3 440 K	13	23	33	46	63	75	83	93	97	99		BNW
APR 23	12:30	151	8.0	1 960 R	28	39	54	74	87	93	97	99	100			BNW
APR 28	17:00	272 H	10.0	1 730 K	8	17	25	36	51	68	85	95	98	99		BNW
MAY 04	17:00	103 H	11.0	386 K	10	18	30	43	57	65	85	97	99	100		BNW
MAY 25	17:00	76.2 H	20.0	817 K	31	40	52	58	64	66	71	82	90	94		BNW
JUN 01	10:30	75.0 H	15.0	1 730 K	15	22	33	85	87	89	92	97	99	100		BNW
JUN 14	20:00	113 H	23.0	660 K	29	40	53	64	72	76	81	86	90	93		BNW
JUN 28	16:30	132 H	18.0	593 K	9	14	22	29	39	45	50	59	76	92		BNW
JUL 04	13:40	176 H	18.0	3 540 K	18	32	74	81	89	92	96	99	100			BNW
JUL 11	07:00	689 H	18.0	933 K	16	21	30	40	50	66	86	97	99	100		BNW
JUL 14	09:00	279 H	22.0	687 K	17	21	30	38	52	66	87	97	99	100		BNW
JUL 17	10:30	155 H	17.0	1 080 K	29	38	52	62	70	77	83	97	99	100		BNW
JUL 27	10:00	221 H	20.0	3 750 K	42	55	71	80	86	89	93	97	99	100		BNW
JUL 27	10:05	221 H	20.0	3 880 K	39	53	70	77	83	87	91	97	99	100		BNW
AUG 14	10:00	73.3 H	16.0	362 K	41	46	59	66	73	77	85	92	95	97		BNW
SEP 26	12:00	43.6 H	11.0	4 880 K	76	90	96	98	99	99	100					BCHNW
SEP 26	12:05	43.6 H	11.0	5 070 K	70	88	96	98	99	99	100					BNHW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ALBERTA

SLAVE RIVER AT FITZGERALD - STATION NO. 07NB001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		2 000 B				1 930 B				2 170 B			1
2		1 810 B				1 960 B				2 070 B			2
3		1 690 B				1 990 B				2 020 B			3
4		1 590 B				2 030 B				1 960 B			4
5		1 500 B				2 070 B				1 840 B			5
6		1 430 B				2 120 B				1 740 B			6
7		1 370 B				2 170 B				1 620 B			7
8		1 330 B				2 200 B				1 550 B			8
9		1 320 B				2 190 B				1 500 B			9
10		1 320 B				2 170 B				1 450 B			10
11		1 340 B				2 190 B				1 410 B			11
12		1 360 B				2 210 B				1 400 B			12
13		1 420 B				2 240 B				1 370 B			13
14		1 520 B				2 270 B				1 370 B			14
15		1 530 B				2 290 B				1 350 B			15
16		1 500 B				2 320 B				1 340 B			16
17		1 470 B				2 300 B				1 320 B			17
18		1 530 B				2 200 B				1 330 B			18
19		1 590 B				2 140 B				1 320 B			19
20		1 680 B				2 090 B				1 290 B			20
21		1 770 B				2 100 B				1 250 B			21
22		1 800 B				2 120 B				1 210 B			22
23		1 810 B				2 140 B				1 180 B			23
24		1 760 B				2 150 B				1 170 B			24
25		1 770 B				2 160 B				1 180 B			25
26		1 780 B				2 180 B				1 180 B			26
27		1 800 B				2 170 B				1 200 B			27
28		1 820 B				2 190 B				1 230 B			28
29		1 840 B								1 240 B			29
30		1 870 B								1 300 B			30
31		1 900 B								1 360 B			31
TOTAL		50 220				60 290				44 920			TOTAL
MEAN		1 620				2 150				1 450			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1 370 B				1 630 B				4 550	505	199 000	1
2		1 380 B				1 770 B				4 480	491 S	190 000	2
3		1 410 B				1 970 B				4 400	455 S	173 000	3
4		1 390 B				2 260 B				4 360	374	141 000	4
5		1 390 B				2 540 B				4 210	299 S	109 000	5
6		1 380 B				2 770 B				4 060	266 S	93 300	6
7		1 400 B				2 930 B				4 010	239 S	82 800	7
8		1 420 B				3 100 B				4 040	229 S	79 900	8
9		1 470 B				3 300 B				4 220	235 S	85 700	9
10		1 510 B				3 520 B				4 450	247 S	95 000	10
11		1 560 B				3 710 B				4 640	244 S	97 800	11
12		1 620 B				3 610 B				4 760	248 S	102 000	12
13		1 650 B				3 840 B				4 800	237 S	98 300	13
14		1 670 B				3 800 B				4 720	249 S	102 000	14
15		1 720 B				4 060 B				4 530	264 S	103 000	15
16		1 730 B				4 500 B				4 350	270 S	101 000	16
17		1 750 B				5 010 B				4 260	276 S	102 000	17
18		1 760 B				4 900 B				4 170	249 S	89 700	18
19		1 760 B				4 710				4 210	225 S	81 800	19
20		1 750 B				4 660				4 330	208 S	77 800	20
21		1 760 B				4 740				4 490	190 S	73 700	21
22		1 750 B				4 870				4 490	179 S	69 400	22
23		1 730 B				4 930				4 440	173 S	66 400	23
24		1 690 B				4 930				4 390	180 S	68 300	24
25		1 640 B				4 940				4 260	175 S	64 400	25
26		1 620 B				5 070				4 140	169 S	60 500	26
27		1 600 B				5 160				4 100	165 S	58 400	27
28		1 550 B				5 050				4 100	164 S	58 100	28
29		1 520 B				4 910				4 110	165 S	58 600	29
30		1 570 B				4 780				4 080	154 S	54 300	30
31						4 650							31
TOTAL		47 520				122 620				130 150		2 836 200	TOTAL
MEAN		1 580				3 960				4 340		94 500	MEAN

ALBERTA

SLAVE RIVER AT FITZGERALD - STATION NO. 07NB001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		3 900	136 S	45 800		4 310	974 S	363 000		3 930	202 S	68 600	1
2		3 810	123 S	40 500		4 290	763 S	283 000		3 950	182 S	62 100	2
3		3 710	130 S	41 700		4 210	579 S	211 000		3 980	154 S	53 000	3
4		3 660	110 S	34 800		4 060	522 S	183 000		3 970	141 S	48 400	4
5		3 620	110 S	34 400		3 810	446 S	147 000		4 000	128 S	44 200	5
6		3 510	124 S	37 600		3 590	391 S	121 000		3 990	121 S	41 700	6
7		3 420	126 S	37 200		3 510	356 S	108 000		3 900	107 S	36 100	7
8		3 340	119 S	34 300		3 640	327 S	103 000		3 660	99 S	31 300	8
9		3 310	115 S	32 900		4 430	346 S	132 000		3 570	95 S	29 300	9
10		3 290	89 S	25 300		5 160	391 S	174 000		3 590	92 S	28 500	10
11		3 400	96 S	28 200		5 400	500 S	233 000		3 560	134 S	41 200	11
12		3 600	89 S	27 700		5 280	640 S	292 000		3 370	133 S	38 700	12
13		3 920	82 S	27 800		5 040	995 S	433 000		3 420	107 S	31 600	13
14		4 180	103 S	37 200		4 740	2 110 S	864 000		3 340	106 S	30 600	14
15		4 300	153 S	56 800		4 500	1 870 S	727 000		3 220	128 S	35 600	15
16		4 300	212 S	78 800		4 290	1 610 S	597 000		3 380	113 S	33 000	16
17		4 140	232 S	83 000		4 070	1 210 S	425 000		3 590	106 S	32 900	17
18		3 920	253 S	85 700		3 860	887 S	296 000		3 820	107 S	35 300	18
19		3 640	349 S	110 000		3 660	623 S	197 000		3 930	108 S	36 700	19
20		3 560	409 S	126 000		3 540	593 S	181 000		3 900	101 S	34 000	20
21		4 880	435 S	183 000		3 490	496 S	150 000	18.0	3 800	99 S	32 500	21
22		6 070	568 S	298 000		3 480	394 S	118 000		3 710	102 S	32 700	22
23		6 180	967 S	516 000		3 410	333 S	98 100		3 630	85 S	26 700	23
24		5 880	2 610	1 330 000		3 410	295	86 900		3 570	77 S	23 800	24
25		5 590	5 270 S	2 550 000		3 470	254 S	76 200		3 510	81 S	24 600	25
26		5 300	4 810 S	2 200 000		3 630	255 S	80 000		3 550	89 S	27 300	26
27		5 060	4 220 S	1 840 000		3 860	256 S	85 400		3 560	97 S	29 800	27
28		4 790	2 670 S	1 100 000		3 980	234 S	80 500		3 520	86 S	26 200	28
29		4 570	2 090 S	825 000		3 990	192 S	66 200		3 460	72 S	21 500	29
30		4 420	1 650 S	630 000		3 970	185 S	63 500		3 370	72 S	21 000	30
31		4 350	1 230 S	462 000		3 970	192 S	65 900					31
TOTAL		131 620		12 959 700		126 050		7 040 700		109 750		1 058 900	TOTAL
MEAN		4 250		418 000		4 070		227 000		3 660		35 300	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		3 230	71 S	19 800		2 890				1 900 B			1
2		3 170	73 S	20 000		2 760				1 980 B			2
3		3 220	66 S	18 400		2 740				2 000 B			3
4		3 260	58 S	16 300		2 730 B				2 090 B			4
5		3 250	55 S	15 400		2 740 B				2 210 B			5
6		3 250	54 S	15 200		2 540 B				2 350 B			6
7		3 250	49 S	13 800		2 350 B				2 530 B			7
8		3 340	48 S	13 900		2 360 B				2 640 B			8
9		3 400	54 S	15 900		2 410 B				2 720 B			9
10		3 500	63 S	19 100		2 050 B				2 640 B			10
11		3 560	73 S	22 500		1 850 B				2 590 B			11
12		3 520	54 S	16 400		1 840 B				2 570 B			12
13		3 570	53 S	16 300		1 950 B				2 510 B			13
14		3 580	61 S	18 900		2 060 B				2 410 B			14
15		3 600	105 S	32 700		2 260 B				2 420 B			15
16		3 710	120	38 500		2 340 B				2 220 B			16
17		3 900	95	32 000		2 330 B				2 100 B			17
18		3 730	128 S	41 300		2 330 B				1 970 B			18
19		3 580	345 S	107 000		2 260 B				1 870 B			19
20		3 470	282 S	84 500		2 200 B				1 880 B			20
21		3 480	199 S	59 800		2 200 B				1 980 B			21
22		3 450	194 S	57 800		2 260 B				2 080 B			22
23		3 370	134 S	39 000		2 040 B				2 150 B			23
24		3 150	124 S	33 700		2 140 B				2 180 B			24
25		3 140	110 S	29 800		2 310 B				2 220 B			25
26		3 130	117 S	31 600		2 370 B				2 240 B			26
27		3 120	125 S	33 700		2 370 B				2 250 B			27
28		3 110	129	34 700		2 330 B				2 220 B			28
29		3 080	123	32 700		2 140 B				2 200 B			29
30		3 020	113	29 500		1 980 B				2 240 B			30
31		2 980	105	27 000						2 330 B			31
TOTAL		104 120		987 200		69 130				69 690			TOTAL
MEAN		3 360		31 800		2 300				2 250			MEAN

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 59 52 20 N
LONG 111 35 00 W
DRAINAGE AREA 606 000 km^2
REGULATED FLOW SINCE 1968

ALBERTA

SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO. 41 - STATION NO. 05AK001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		33.0 B				46.0 B				57.1 B			1
2		32.0 B				48.0 B				59.1 B			2
3		36.0 B				47.5 B				63.2 B			3
4		35.0 B				44.0 B				62.1 B			4
5		35.0 B				45.0 B				59.1 B			5
6		35.5 B				42.5 B				57.0 B			6
7		36.5 B				41.0 B				55.0 B			7
8		38.4 B				42.0 B				55.0 B			8
9		42.5 B				38.0 B				56.0 B			9
10		47.0 B				41.5 B				57.0 B			10
11		44.0 B				44.5 B				58.0 B			11
12		45.5 B				47.5 B				61.0 B			12
13		52.0 B				50.0 B				67.5 B			13
14		50.0 B				54.0 B				73.8 B			14
15		50.5 B				59.0 B				75.7 B			15
16		52.0 B				66.0 B				71.5 B			16
17		50.0 B				72.5 B				70.6 B			17
18		52.0 B				67.5 B				71.0 B			18
19		54.5 B				66.9 B				69.2 B			19
20		57.5 B				66.6 B				68.6 B			20
21		62.0 B				64.7 B				68.2 B			21
22		67.0 B				62.8 B				67.6 B			22
23		64.5 B				64.6 B				67.1 B			23
24		65.0 B				66.6 B				65.2 B			24
25		67.0 B				60.7 B				66.1 B			25
26		62.0 B				57.8 B				69.0 B			26
27		57.0 B				56.4 B				70.0 B			27
28		51.1 B				56.2 B				72.0 B			28
29		50.0 B								73.3 B			29
30		52.5 B								78.2 B			30
31		51.0 B								81.8 B			31
TOTAL		1 528.0				1 519.8				2 046.0			TOTAL
MEAN		49.3				54.3				66.0			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		88.5 B			10.0	159	74 S	1 020	11.0	357	951 S	29 300	1
2		89.0 B			11.0	169	93 S	1 360	11.0	331	951 S	27 200	2
3		81.5 B				163	134	1 890	13.0	295	648 S	16 500	3
4		78.0 B			9.0	153	79 S	1 040	15.0	281	566 S	13 700	4
5		75.5 B				157	61	827		270	524	12 200	5
6		73.5 B											6
7		69.3 B			8.0	182	122 S	1 920	13.0	268	538 S	12 500	7
8		67.3 B				156	75	1 010		255	537	11 800	8
9		65.2 B			8.0	152	110 S	1 440	13.0	298	632 S	16 300	9
10		64.2 B			8.0	160	77 S	1 060		393	651	22 100	10
11		63.2 B				166	107	1 530	15.0	427	635 S	23 400	11
12		63.7 B			9.0	165	78 S	1 110	16.0	445	764 S	29 400	12
13		70.8 B				165	65	927	19.0	469	864 S	35 000	13
14		87.8 B			11.0	165	51 S	727	20.0	412	850 S	30 300	14
15		104 B				151	33	431	20.0	385	740 S	24 600	15
16		111 B			14.0	131	28 S	317	20.0	428	507 S	18 700	16
17		116 B											17
18		122 B			13.0	119	28 S	288	20.0	446 E	663 S	25 500	18
19		135 B				104	25	225	18.0	543 E	944 S	44 300	19
20	0.3	148 B	259 S	3 310	17.0	89.6	16 S	124	18.0	533 E	1 120 S	51 600	20
						96.9	53	444	19.0	606 E	998 S	52 300	
21		154 B	255	3 390	14.0	118	75 S	765	20.0	614 E	762 S	40 400	21
22	5.0	160 B	276 S	3 820		151	51	665	19.0	559 E	770 S	37 200	22
23		165 B	275	3 920	15.0	161	47 S	654	20.0	637 E	843 S	46 400	23
24	8.0	224	237 S	4 590	14.0	179	68 S	1 050	19.0	602 E	636 S	33 100	24
25	9.0	240	242 S	5 020		183	72	1 140	20.0	585 E	524 S	26 500	25
26		210	111	2 010	17.0	183	72 S	1 140	18.0	559 E	567 S	27 400	26
27	8.0	185	144 S	2 300	17.0	184	108 S	1 720	17.0	517 E	355 S	15 900	27
28		199	127	2 180	15.0	183	158 S	2 500	16.0	470 E	410 S	16 600	28
29	8.0	205	141 S	2 500		190	201	3 300	18.0	497 E	418 S	17 900	29
30		181	84	1 310	13.0	215	341 S	6 330	17.0	486 E	653 S	27 400	30
31					9.0	282	612 S	14 900	17.0	483 E	432 S	18 000	31
						350	891	26 900					
TOTAL		3 696.5				5 182.5		78 754		13 451		803 506	TOTAL
MEAN		123				167		2 540		448		26 800	MEAN

SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO. 41 - STATION NO. 05AK001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	18.0	466 E	885 S	35 600	23.0	152	64 S	840		47.6	9	37.8	1
2	20.0	469 E	682 S	27 600		118	22	224		49.7	9	38.6	2
3	19.0	481 E	1 150 S	47 800	20.0	115	26 S	258		48.1	10	41.6	3
4	16.0	563 E	1 490 S	72 500		119	36	370		51.5	10	44.5	4
5	16.0	582 E	1 450 S	72 900	19.0	121	39 S	408		48.9	11 S	46.5	5
6	16.0	556 E	1 290 S	62 000		111	34	326		46.0	12	47.7	6
7	17.0	539 E	1 950 S	90 800	21.0	93.0	19 S	153		59.1	13	66.4	7
8	17.0	541 E	2 000 S	93 500	22.0	95.7	22 S	182		56.6	14	68.5	8
9	18.0	548 E	716 S	33 900		98.5	36	306		49.6	12	51.4	9
10	19.0	454 E	480 S	18 800	19.0	90.5	19 S	149		45.8	10	39.6	10
11	21.0	398 E	274 S	9 420		90.5	16	125		44.9	10	38.8	11
12		323 E	210	5 860	19.0	85.9	17 S	126		44.5	6 S	23.1	12
13	22.0	295 E	203 S	5 170		72.0	13	80.5		48.5	7	29.3	13
14		281 E	219	5 320	18.0	60.8	12 S	63.0		56.8	10 S	49.1	14
15	18.0	225 E	229 S	4 450	17.0	54.8	15 S	71.0		53.8	8	37.2	15
16		230 E	209	4 150		57.5	29	144		44.9	8 S	31.0	16
17	17.0	204 E	210 S	3 700	20.0	59.2	43 S	220		47.9	7	29.0	17
18	18.0	223 E	390 S	7 510		68.5	55	326		56.9	8 S	39.3	18
19		217 E	367	6 880	20.0	75.9	25 S	164		73.7	11 S	70.0	19
20		200 E	316	5 460		69.4	38	228		71.5	11	68.0	20
21		175 E	276	4 170	19.0	59.2	13 S	66.5		60.3	11 S	57.3	21
22		195 E	235	3 960	17.0	53.7	11 S	51.0		50.9	9	39.6	22
23		180 E	194	3 020		48.6	12	50.4		45.4	8 S	31.4	23
24		134 E	157	1 820	18.0	45.8	10 S	39.6		43.2	8	29.9	24
25		129 E	121	1 350		46.4	9	36.1		42.1	7 S	25.5	25
26		109 E	99	932	17.0	50.5	10 S	43.6		48.2	8 S	33.3	26
27	23.0	94.5 A	76 S	621		53.6	12	55.6		50.1	18	77.9	27
28	22.0	148	108 S	1 380		49.9	13 S	56.0		50.4	23	100	28
29		164	112	1 590		48.0	12 S	49.8		55.6	34 S	163	29
30	21.0	154	91 S	1 210		47.6	12	49.4		58.3	34	171	30
31		157	117	1 590	17.0	48.0	9 S	37.3					31
TOTAL		9 434.5		634 963		2 359.5		5 299.2		1 550.8		1 625.5	TOTAL
MEAN		304		20 500		76.1		171		51.7		54.2	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		62.3	31	167		110				53.0 B			1
2		65.3	43 S	243		128 A				55.0 B			2
3		102	90 S	793		125				56.0 B			3
4		86.7	59	442		128				56.0 B			4
5		74.0	50 S	320		132				56.0 B			5
6		70.9	40	245		122				56.0 B			6
7		68.1	30 S	177		123				55.0 B			7
8		76.1	49	322		131				59.0 B			8
9		86.8	42 S	315		131				73.0 B			9
10		76.2	27 S	178		113 B				79.0 B			10
11		69.1	22	131		110 B				78.0 B			11
12		68.1	20 S	118		1[illegible] B				77.0 B			12
13		71.6	22	136		[illegible]5.0 B				76.0 B			13
14		66.9	21 S	121		60.0 B				75.0 B			14
15		68.0	21	123		40.0 B				74.0 B			15
16		65.7	24 S	136		39.0 B				76.0 B			16
17		66.8	52 S	300		39.0 B				75.0 B			17
18		65.7	41	233		40.0 B				72.0 B			18
19		82.1	31 S	220		45.0 B				71.0 B			19
20		119	70	720		50.0 B				70.0 B			20
21		106	41 S	375		46.0 B				70.0 B			21
22		100	42	363		43.0 B				72.0 B			22
23		95.7	40 S	331		40.0 B				74.0 B			23
24		92.0	39 S	310		41.0 B				75.0 B			24
25		99.8	40	345		42.0 B				75.0 B			25
26		101	56 S	489		44.0 B				73.0 B			26
27		109	52	490		45.0 B				71.0 B			27
28		109	50 S	471		47.0 B				71.0 B			28
29		152	202	2 650		48.0 B				71.0 B			29
30		141	176	2 140		51.0 B				72.0 B			30
31		102	59 S	520						77.0 B			31
TOTAL		2 718.9		13 924		2 309.0				2 143.0			TOTAL
MEAN		87.7		449		77.0				69.1			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)		SUSPENDED SEDIMENT LOAD(t/d)	
MAXIMUM DAILY	2 000 ON JUL 08	MAXIMUM DAILY	93 500 ON JUL 08

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 44 15 N
LONG 110 05 45 W
DRAINAGE AREA 66 000 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO. 41 - STATION NO. 05AK001

DEPTH INTEGRATING PARTICLE-S[illegible]E ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; P - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.063	0.125	0.250	0.500	1.000	2.000	
MAY 20	08:30	118 M	10.0	706 X	49	68	92	95	97	97	99	99	100			BNW
JUL 05	09:15	582	16.0	1 400 X	23	31	45	61	71	82	90	96	98	99		BNW
JUL 05	09:20	582	16.0	1 560 X	24	32	46	62	72	80	85	92	96	97		BNW

M - DAILY MEAN DISCHARGE

X - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

SWAN RIVER NEAR KINUSO - STATION NO. 07BJ001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.236 B				0.255 B				0.169 B			1
2		0.218 B				0.253 B				0.160 B			2
3		0.216 B				0.270 B				0.149 B			3
4		0.226 B				0.277 B				0.147 B			4
5		0.250 B				0.285 B				0.140 B			5
6		0.295 B				0.275 B				0.130 B			6
7		0.236 B				0.255 B				0.127 B			7
8		0.194 B				0.250 B				0.127 B			8
9		0.192 B				0.270 B				0.129 B			9
10		0.188 B				0.257 B				0.131 B			10
11		0.188 B				0.214 B				0.138 B			11
12		0.166 B				0.201 B				0.140 B			12
13		0.170 B				0.203 B				0.138 B			13
14		0.164 B				0.200 B				0.137 B			14
15		0.150 B				0.191 B				0.129 B			15
16		0.170 B				0.191 B				0.128 B			16
17		0.194 B				0.180 B				0.126 B			17
18		0.190 B				0.171 B				0.127 B			18
19		0.184 B				0.180 B				0.126 B			19
20		0.186 B				0.180 B				0.123 B			20
21		0.190 B				0.179 B				0.125 B			21
22		0.200 B				0.171 B				0.127 B			22
23		0.202 B				0.176 B				0.128 B			23
24		0.192 B				0.176 B				0.131 B			24
25		0.184 B				0.174 B				0.141 B			25
26		0.174 B				0.177 B				0.149 B			26
27		0.180 B				0.182 B				0.142 B			27
28		0.194 B				0.175 B				0.140 B			28
29		0.210 B								0.148 B			29
30		0.231 B								0.148 B			30
31		0.248 B								0.154 B			31
TOTAL		6.218				5.968				4.254			TOTAL
MEAN		0.200				0.213				0.137			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.161 B				45.6	524	2 060	16.0	15.1	86 S	112	1
2		0.166 B				54.2	893	4 180		14.0	74	89.5	2
3		0.168 B				75.6	1 610	10 500	19.0	14.0	73 S	88.3	3
4		0.173 B				70.6	1 370	8 360		16.0	91	126	4
5		0.177 B				45.1	939	3 660	13.0	14.3	72 S	89.0	5
6		0.190 B			3.0	33.1	543 S	1 550		12.7	54	59.3	6
7		0.202 B			5.0	29.7	310 S	795	13.0	12.1	36 S	37.6	7
8		0.207 B			5.0	27.8	297 S	713		11.2	30	29.0	8
9		0.216 B				29.3	269	681	14.0	10.5	32 S	29.0	9
10		0.220 B			7.0	30.9	351 S	937		9.67	29	24.2	10
11		0.232 B			6.0	40.1	650 S	2 250	20.0	8.83	26 S	19.8	11
12		0.229 B			7.0	54.5	985 S	4 640		8.13	24	16.9	12
13		0.217 B			6.0	56.7	814 S	3 990	19.0	7.47	23 S	14.8	13
14		0.209 B			7.0	52.8	793 S	3 620		7.14	21	13.0	14
15		0.262 B			7.0	51.6	749 S	3 340	22.0	6.79	15 S	8.60	15
16		0.297 B			8.0	65.3	1 030 S	5 810		6.36	13	7.12	16
17		0.349 B			7.0	85.3	1 450 S	10 700	21.0	5.70	11 S	5.62	17
18		2.44 B			7.0	67.4	945 S	5 500		5.16	10	4.46	18
19		3.88 B			5.0	94.9	2 050 S	16 800	23.0	4.72	12 S	4.89	19
20		3.36 B			7.0	79.3	1 090 S	7 470		4.26	12	4.42	20
21		2.84 B			8.0	56.4	739 S	3 600	24.0	3.93	12 S	3.80	21
22		3.98 B			10.0	45.9	533 S	2 110		3.94	8	2.72	22
23		8.98 B	94 S	39.6	10.0	41.3	455 S	1 620	22.0	3.76	8 S	2.60	23
24		10.8 B	70	66.5	11.0	37.7	400 S	1 300		3.49	7	2.11	24
25		15.0 B	264	342	10.0	31.8	303 S	832	21.0	3.15	7 S	1.91	25
26	0.1	25.3 B	504 S	1 280	9.0	37.3	398 S	1 280		2.92	8	2.02	26
27		28.1 B	580	1 410	10.0	34.0	347 S	1 020	18.0	2.75	11 S	2.61	27
28	1.0	42.3	940 S	3 440	11.0	27.6	249 S	594		2.65	10	2.29	28
29		50.8	804	3 790		22.5	172	334	22.0	2.50	8 S	1.73	29
30		46.0	583	2 320	16.0	19.2	132 S	219		2.33	10	2.01	30
31						16.9	107	156					31
TOTAL		246.615				1 460.8		110 621		225.53		806.91	TOTAL
MEAN		8.23				47.1		3 570		7.52		26.9	MEAN

ALBERTA

SWAN RIVER NEAR KINUSO - STATION NO. 07BJ001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	16.0	2.46	12 S	2.55		13.0	94	106	14.0	8.20	28 S	19.8	1
2		3.00	22	5.70	15.0	68.4	1 110 S	6 560		7.49	23	14.9	2
3	18.0	6.74	115 S	67.0	11.0	153	1 550 S	20 500	15.0	6.13	17 S	9.00	3
4		17.1	537	793	10.0	183	1 490 S	23 600		5.27	15	6.83	4
5	13.5	58.1	1 150 S	5 770	11.5	126	915 S	9 960	15.0	4.86	14 S	5.88	5
6	14.0	61.5	742 S	3 940	13.5	71.0	651 S	3 990		4.79	13	5.38	6
7	16.0	40.5	420 S	1 470	15.0	46.5	399 S	1 600	15.0	4.82	11 S	4.58	7
8	17.0	26.3	230 S	523	18.0	33.0	243 S	693	14.0	4.75	12 S	4.92	8
9		21.0	346	628		24.8	177	379		4.88	12	5.06	9
10	19.0	19.0	276 S	453	19.0	19.4	124 S	208	11.0	5.07	12 S	5.26	10
11		16.9	141	182		17.3	115	172		4.66	13	5.46	11
12	19.0	11.4	72 S	70.9	15.0	19.9	123 S	211	10.0	4.62	15 S	5.99	12
13		9.78	40	33.8		17.1	104	156		4.63	15	6.00	13
14	19.0	8.89	32 S	24.6	14.0	13.7	82 S	97.1	10.0	4.59	11 S	4.36	14
15		53.4	1 100	5 080		11.8	51	52.0		4.12	9	3.20	15
16	14.0	129	2 240 S	25 000	13.0	12.3	37 S	39.3	13.0	3.92	10 S	3.39	16
17	15.0	68.3	1 090 S	6 430		13.1	37	41.9		3.65	10	3.15	17
18	16.0	44.7	603 S	2 330	13.0	11.7	31 S	31.3	14.0	3.37	11 S	3.20	18
19	15.0	33.5	410 S	1 190		9.61	26	21.6		3.16	11	3.00	19
20	14.0	25.1	286 S	620	18.0	8.24	22 S	15.7	14.0	2.90	10 S	2.51	20
21		19.6	216	366		7.15	21	13.0		2.72	9	2.12	21
22	12.0	26.6	540 S	1 240	14.0	6.85	21 S	12.4	14.0	2.59	8 S	1.79	22
23	12.0	41.3	767 S	2 740		8.69	24	18.0		2.49	8	1.72	23
24	15.0	36.9	356 S	1 130	14.0	8.43	26 S	18.9	13.0	2.43	9 S	1.89	24
25	16.0	38.1	615 S	2 020		8.28	26	18.6		2.34	12	2.43	25
26	16.0	39.5	795 S	2 710	12.0	8.66	25 S	18.7	11.0	2.24	14 S	2.71	26
27	16.0	30.1	373 S	970		8.37	23	16 S		2.18	18	3.39	27
28	15.0	21.6	196 S	366	10.0	7.68	19 S	12.6	9.0	2.23	21 S	4.05	28
29	19.0	17.1	132 S	195		7.26	15	9.41		2.58	21	4.68	29
30		13.9	84	101	12.0	6.79	13 S	7.63	8.0	3.41	17 S	5.01	30
31	20.0	11.7	64 S	64.7		7.19	17	10.6					31
TOTAL		951.07		66 516.25		958.20		68 588.34		121.29		151.66	TOTAL
MEAN		30.7		2 150		30.9		2 210		4.04		5.06	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		4.07	13	4.57		1.38 B				0.515 B			
2	9.0	3.81	11 S	3.62		1.55 B				0.513 B			1
3		3.49	10	3.02		1.54 B				0.475 B			2
4	9.0	3.32	10 S	2.87		1.73 B				0.450 B			3
5	7.0	3.05	9 S	2.37		1.75 B				0.448 B			4
6		3.01	9	2.34		1.56 B				0.415 B			5
7	6.0	2.85	8 S	1.97		1.37 B				0.420 B			
8		2.78	8	1.92		1.34 B				0.420 B			6
9	5.0	2.69	8 S	1.86		1.08 B				0.415 B			7
10		2.58	8	1.78		0.919 B				0.400 B			8
11	8.0	2.46	6 S	1.28		0.832 B				0.380 B			9
12		2.40	6	1.24		0.538 B				0.370 B			10
13	10.0	2.32	7 S	1.40		0.683 B				0.365 B			11
14		2.23	6	1.16		0.587 B				0.365 B			12
15	7.0	2.19	4 S	0.76		0.459 B				0.378 B			13
16		2.15	3	0.56		0.464 B				0.370 B			14
17	3.0	2.23	3 S	0.58		0.448 B				0.387 B			15
18		2.47	3	0.64		0.438 B				0.410 B			16
19	3.0	2.35	4 S	0.81		0.434 B				0.414 B			17
20		1.97	4	0.68		0.431 B				0.412 B			18
21	3.0	1.65	4 S	0.57		0.440 B				0.410 B			19
22		1.73	2	0.30		0.447 B				0.431 B			20
23	5.0	2.09	1 S	0.18		0.444 B				0.442 B			21
24		2.16	2	0.37		0.434 B				0.421 B			22
25	3.0	2.24	2 S	0.39		0.436 B				0.350 B			23
26	4.0	2.26	2 S	0.39		0.460 B				0.307 B			24
27		2.28	2	0.39		0.530 B				0.275 B			25
28		2.26	2	0.39		0.605 B				0.267 B			26
29		2.25	2	0.39		0.600 B				0.263 B			27
30		1.83 B	2	0.32		0.570 B				0.262 B			28
31		1.37 B	2	0.24						0.255 B			29
													30
													31
TOTAL		76.58		39.36		24.499				12.005			TOTAL
MEAN		2.47		1.27		0.816				0.387			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 2 240 ON JUL 16

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 25 000 ON JUL 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 19 00 N
LONG 115 24 30 W
DRAINAGE AREA 1 900 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

SWAN RIVER NEAR KINUSO - STATION NO. 07BJ001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)		CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES									METHOD OF ANALYSIS
								0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 28	09:45	45.4		1.0		974	R	8	12	22	35	53	69	80	91	95	97		[illegible]
MAY 17	07:00	85.3	M	7.0	1	430	K	12	17	28	40	54	71	88	97	99	100		[illegible]
MAY 19	15:30	94.9	M	5.0	2	520	K	10	19	28	38	54	69	78	88	95	98		[illegible]
JUL 06	11:00	67.3		14.0		739	R	17	24	35	44	55	66	77	92	97	98		[illegible]
JUL 16	16:00	121		14.0	1	760	R	16	22	33	44	59	74	82	89	94	97		[illegible]
AUG 04	09:30	196		10.0	1	710	R	13	18	29	40	56	72	85	92	96	98		[illegible]

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ALBERTA

TWIN CREEK NEAR SEEBE - STATION NO. 05BF018

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.005				0.004				0.003			1
2		0.004				0.004				0.003			2
3		0.005				0.004				0.003			3
4		0.005				0.004				0.003			4
5		0.003				0.004				0.002			5
6		0.002				0.004							
7		0.002				0.003				0.002			6
8		0.003				0.003				0.002			7
9		0.003				0.002				0.002			8
10		0.003				0.002				0.002			9
										0.002			10
11		0.003				0.002							
12		0.004				0.002				0.002			11
13		0.004				0.003				0.002			12
14		0.003				0.002				0.002			13
15		0.004				0.003				0.002			14
										0.002			15
16		0.008				0.003							
17		0.004				0.003				0.002			16
18		0.004				0.003				0.002			17
19		0.005 B				0.003				0.002			18
20		0.005 B				0.003				0.002			19
										0.002			20
21		0.005 B				0.003							
22		0.005 B				0.003				0.002			21
23		0.005 B				0.003				0.002			22
24		0.005 B				0.003				0.002			23
25		0.004				0.003				0.002			24
										0.002			25
26		0.004				0.003							
27		0.004				0.003				0.002			26
28		0.004				0.003				0.002			27
29		0.004								0.002			28
30		0.004								0.002			29
31		0.004								0.002			30
										0.002			31
TOTAL		0.123				0.084				0.066			TOTAL
MEAN		0.004				0.003				0.002			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.002	0	0		0.003	0	0		0.050	1	0	1
2		0.002	0	0		0.004	0	0		0.063	2	0.01	2
3		0.002	0	0		0.005	0	0	0.0	0.078	2 E	0.01	3
4		0.002	0	0		0.005	0	0		0.101	2	0.02	4
5		0.002	0	0		0.004	0	0		0.122	2	0.02	5
6		0.002	0	0		0.004	0	0		0.118	2	0.02	6
7		0.002	0	0		0.004	0	0		0.099	2	0.02	7
8		0.002	0	0		0.004	0	0	0.5	0.088	2 E	0.02	8
9		0.002	0	0		0.004	0	0		0.088	2	0.02	9
10		0.002	0	0		0.003	0	0		0.101	3	0.02	10
11		0.002	0	0		0.004	0	0		0.148	3	0.04	11
12		0.002	0	0		0.004	0	0	1.0	0.227	6 E	0.12	12
13		0.002	0	0		0.005	0	0	1.5	0.300	9 E	0.23	13
14		0.002	0	0	0.5	0.007	1 E	0	2.5	0.369	10 E	0.32	14
15		0.002	0	0		0.011	1	0	1.5	0.416	12 E	0.43	15
16		0.002	0	0		0.017	1	0	1.5	0.453	10 E	0.39	16
17		0.002	0	0		0.020	1	0		0.420	9	0.33	17
18		0.002	0	0		0.024	1	0		0.365	9	0.28	18
19		0.003	0	0		0.023	1	0	2.0	0.377	18 E	0.59	19
20		0.002	0	0		0.024	1	0	3.0	0.383	15 E	0.50	20
21		0.002	0	0		0.030	1	0		0.372	10	0.32	21
22		0.002	0	0		0.041	1	0		0.335	5	0.14	22
23		0.002	0	0		0.050	2	0.01	3.5	0.314	3 E	0.08	23
24		0.003	0	0		0.053	2	0.01		0.282	3	0.07	24
25		0.003	0	0		0.076	2	0.01		0.258	3	0.07	25
26		0.002	0	0		0.085	2	0.01		0.230	3	0.06	26
27		0.002	0	0		0.057	2	0.01		0.233	3	0.06	27
28		0.003	0	0		0.045	1	0	3.5	0.227	3 E	0.05	28
29		0.003	0	0		0.038	1	0		0.208	4	0.07	29
30		0.003	0	0		0.035	1	0		0.194	5	0.08	30
31						0.038	1	0					31
TOTAL		0.065		0		0.727		0.05		7.038		4.40	TOTAL
MEAN		0.002		0		0.023		0		0.234		0.15	MEAN

TWIN CREEK NEAR SEEBE - STATION NO. 05BF018

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.187	6	0.10		0.041	1	0		0.020	1	0	1
2		0.171	7	0.10		0.040	1	0		0.019	1	0	2
3		0.158	8	0.11	5.0	0.038	1 S	0		0.019	1	0	3
4		0.148	8	0.10		0.037	1	0		0.022	1	0	4
5		0.137	9	0.11		0.035	1	0		0.021	1	0	5
6	5.0	0.129	10 S	0.11		0.034	1	0		0.020	1	0	6
7		0.125	9	0.10		0.033	1	0		0.020	1	0	7
8		0.121	9	0.09		0.032	2	0.01		0.019	1	0	8
9		0.114	8	0.08		0.031	2	0.01		0.020	1	0	9
10		0.107	7	0.06		0.030	2	0.01		0.021	1	0	10
11		0.100	7	0.06	6.0	0.030	2 S	0.01	3.5	0.021	1 S	0	11
12		0.093	6	0.05		0.030	2	0.01		0.020	1	0	12
13	4.0	0.086	5 S	0.04		0.029	1	0		0.021	1	0	13
14		0.082	4	0.03		0.029	1	0		0.020	1	0	14
15		0.078	3	0.02		0.028	1	0		0.020	1	0	15
16		0.072	3	0.02		0.027	0	0		0.021	1	0	16
17		0.067	2	0.01	6.0	0.025	0 S	0		0.021	1	0	17
18		0.063	1	0.01		0.024	0	0		0.020	1	0	18
19		0.060	1	0.01		0.023	0	0		0.020	1	0	19
20	5.0	0.065	0 S	0		0.023	0	0		0.019	1	0	20
21		0.061	0	0		0.023	1	0		0.020	1	0	21
22		0.060	0	0		0.022	1	0		0.022	1	0	22
23		0.057	0	0		0.022	1	0		0.023	1	0	23
24		0.055	1	0		0.021	1	0		0.023	1	0	24
25		0.054	1	0	5.0	0.021	1 S	0		0.023	1	0	25
26		0.052	1	0		0.024	1	0		0.026	1	0	26
27	5.0	0.049	1 S	0		0.023	1	0		0.024	1	0	27
28		0.047	1	0		0.022	1	0		0.024	1	0	28
29		0.044	1	0		0.022	1	0		0.025	1	0	29
30		0.043	1	0		0.021	1	0		0.025	1	0	30
31		0.042	1	0		0.020	1	0					31
TOTAL		2.727		1.21		0.860		0.05		0.639		0	TOTAL
MEAN		0.088		0.04		0.028		0		0.021		0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.027	1	0		0.014				0.009			1
2		0.027	1	0		0.014				0.008			2
3		0.026	1	0		0.014				0.008			3
4		0.025	1	0		0.014				0.008			4
5		0.022	1	0		0.013				0.008			5
6		0.023	1	0		0.012				0.008			6
7		0.023	1	0		0.012				0.008			7
8		0.022	1	0		0.012				0.007			8
9		0.019	1	0		0.012				0.007			9
10		0.021	1	0		0.012				0.007			10
11		0.021	1	0		0.012				0.007			11
12		0.020	0	0		0.012				0.007			12
13		0.020	0	0		0.011				0.007			13
14		0.019	0	0		0.011				0.007			14
15		0.019	0	0		0.010				0.007			15
16		0.019	0	0		0.011				0.007			16
17		0.018	0	0		0.011				0.007			17
18		0.016	0	0		0.011				0.007			18
19		0.015	0	0		0.010				0.007			19
20		0.015	0	0		0.010				0.007			20
21		0.016	0	0		0.009				0.007			21
22		0.018	0	0		0.009				0.007			22
23		0.018	0	0		0.009				0.007			23
24		0.018	0	0		0.009				0.006			24
25		0.018	0	0		0.009				0.007			25
26		0.018	0	0		0.009				0.006			26
27		0.017	0	0		0.009				0.006			27
28		0.016	0	0		0.009				0.006			28
29		0.014	0	0		0.009				0.006			29
30		0.014	0	0		0.009				0.006			30
31		0.014	0	0						0.006			31
TOTAL		0.598		0		0.328				0.218			TOTAL
MEAN		0.019		0		0.011				0.007			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 18 ON JUN 19
MINIMUM DAILY 0 ON APR 01

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 0.59 ON JUN 19
MINIMUM DAILY 0 ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 33 N
LONG 115 10 19 W
DRAINAGE AREA 2.64 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ALBERTA

WAMPUS CREEK NEAR HINTON - STATION NO. 07AF003

SUSPENDED SEDIMENT FOR 1982

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.005 B	1	0		1.41 B	43	5.26	4.5	0.662	15 S	0.86	1
2		0.005 B	1	0		1.32 B	37	4.22	5.6	0.573	10 S	0.50	2
3		0.005 B	1	0		0.842 B	31	2.26	4.3	0.578	11 S	0.55	3
4		0.005 B	1	0	0.1	0.674 B	29 S	1.69	3.5	0.514	9 S	0.40	4
5		0.005 B	1	0	0.1	0.609 B	29 S	1.53	2.0	1.14	62 S	6.11	5
6		0.006 B	1	0	0.1	0.484 B	21 S	0.88	0.5	1.09	42 S	3.96	6
7		0.007 B	1	0		0.556 B	18	0.86	1.0	0.902	22 S	1.71	7
8		0.008 B	1	0		0.672 B	21	1.22		0.955	18	1.49	8
9		0.009 B	1	0		0.637 B	34	1.87		1.26	32	3.48	9
10		0.010 B	1	0		0.675 B	55	3.21		0.979	10	0.85	10
11		0.010 B	1	0	0.1	0.874 B	70 S	5.29		0.839	8	0.58	11
12		0.010 B	1	0		0.892 B	61	4.70		0.730	7	0.44	12
13		0.010 B	1	0	0.1	0.911 B	44 S	3.46		0.646	5	0.28	13
14		0.010 B	1	0		0.925 B	32	2.56	9.7	0.585	4 S	0.20	14
15		0.010 B	1	0	0.1	0.797 B	24 S	1.65		0.533	3	0.14	15
16		0.011 B	1	0	0.1	0.750 B	21 S	1.36		0.481	2	0.08	16
17		0.012 B	1	0	0.3	0.412 B	19 S	0.68	9.7	0.430	1 S	0.04	17
18		0.014 B	1	0	0.4	0.488 B	19 S	0.80		0.380	1	0.03	18
19		0.030 B	2	0.01		0.631	16	0.87		0.346	2	0.06	19
20		0.140 B	10	0.12	0.1	0.547	15 S	0.71		0.323	2	0.06	20
21		0.260 B	23	0.49		0.518	16	0.72	8.7	0.299	2 S	0.05	21
22		0.320 B	28	0.77		0.466	16	0.64		0.291	3	0.08	22
23		0.600 B	30	1.56	0.2	0.489	19 S	0.80		0.304	4	0.11	23
24		0.580 B	28	1.40		0.475	21	0.86	9.0	0.271	5 S	0.12	24
25		0.500 B	27	1.17		0.540	21	0.98		0.260	5	0.11	25
26		0.470 B	28	1.14		0.802	24	1.66	9.5	0.253	4 S	0.09	26
27		0.620 B	31	1.66	0.3	1.39	174 S	20.9		0.316	9	0.25	27
28		0.850 B	37	2.72	0.6	1.28	95 S	10.6	8.2	0.552	25 S	1.19	28
29		1.02 B	45	3.97	2.2	1.27	77 S	8.65		0.427	8	0.30	29
30		1.47 B	38	4.83	3.6	1.13	55 S	5.37		0.398	7	0.24	30
31					3.3	0.808	26 S	1.82					31
TOTAL		7.012		19.84		24.284		97.86		17.317		24.36	TOTAL
MEAN		0.234		0.66		0.783		3.16		0.577		0.81	MEAN

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	10.0	0.373	6 S	0.19		0.584	27	1.18	9.3	0.408	33 S	1.16	1
2		0.375	6	0.19		0.437	17	0.64		0.359	31	0.96	2
3	7.7	0.891	90 S	6.93		0.370	11	0.35		0.326	28	0.79	3
4	6.3	4.17	1 010 S	364		0.319	10	0.28		0.623	37	1.99	4
5	5.7	5.55	302 S	145		0.282	9	0.22		0.591	15	0.77	5
6	6.3	3.71	126 S	40.4		0.248	8	0.17		0.468	8	0.32	6
7		2.50	72	15.6		0.228	9	0.18		0.423	7	0.26	7
8		1.79	43	6.65	9.5	0.218	9 S	0.17	9.4	0.390	5 S	0.17	8
9	7.8	1.40	27 S	3.27	12.3	0.307	31 S	0.82		0.364	4	0.13	9
10		1.10	21	2.00	11.0	0.600	47 S	2.44		0.366	4	0.13	10
11		0.869	17	1.28		0.416	16	0.58		0.330	3	0.09	11
12	7.3	0.736	15 S	0.95		0.374	13	0.42		0.405	6	0.21	12
13		0.670	14	0.81	11.5	0.291	10 S	0.25		0.406	5	0.18	13
14	7.0	1.11	150 S	18.4	8.8	0.319	13 S	0.36	5.0	0.339	2 S	0.06	14
15	6.6	1.64	81 S	11.5		0.398	16	0.55		0.317	4	0.11	15
16		1.17	22	2.22	9.3	0.362	11 S	0.33	4.3	0.306	9 S	0.24	16
17		0.922	18	1.43		0.287	9	0.22		0.276	8	0.19	17
18	10.4	0.784	13 S	0.88		0.261	9	0.19		0.253	7	0.15	18
19		1.10	34	3.23		0.219	8	0.15		0.239	7	0.14	19
20		0.922	14	1.12	10.0	0.210	8 S	0.15		0.228	7	0.14	20
21		0.853	11	0.81		0.210	8	0.15		0.220	6	0.11	21
22		0.832	13	0.93		0.370	19	0.61	8.5	0.214	6 S	0.11	22
23	8.1	0.684	7 S	0.41		0.278	10	0.24		0.208	6	0.11	23
24		0.641	7	0.39		0.237	9	0.18		0.201	6	0.10	24
25		0.575	7	0.35		0.266	10	0.23		0.199	6	0.10	25
26		0.501	8	0.35	7.5	0.595	41 S	2.11		0.274	12	0.28	26
27		0.445	8	0.31		0.513	34	1.51		0.292	15	0.38	27
28		0.396	8	0.27		0.710	52	3.19		0.476	19	0.78	28
29	3.0	0.351	9 S	0.27		0.568	39	1.90	3.2	0.589	15 S	0.76	29
30		0.309	9	0.24		0.548	37	1.74		0.586	10	0.64	30
31	13.4	0.278	9 S	0.22		0.470	35	1.42					31
TOTAL		37.647		626.60		11.367		22.93		10.596		11.36	TOTAL
MEAN		1.21		20.2		0.366		0.74		0.353		0.38	MEAN

ALBERTA

MAKPUS CREEK NEAR HINTON - STATION NO. 07AF003

SUSPENDED SEDIMENT FOR 1982

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.565	9	0.44		0.155 B	5	0.07					1
2		0.672 A	9	0.52		0.154 B	5	0.07					2
3		1.25 E	11	1.19	0.1	0.152 B	5 S	0.07					3
4		1.00 E	11	0.95									4
5		0.840 E	10	0.73									5
6		0.750 E	8	0.52									6
7		0.698 A	7	0.42									7
8		0.622	6	0.32									8
9		0.562	5	0.24									9
10		0.579	5	0.25									10
11		0.593	5	0.26									11
12		0.542	5	0.23									12
13		0.525	5	0.23									13
14		0.502	5	0.22									14
15		0.468	5	0.20									15
16		0.446	5	0.19									16
17		0.425	5	0.18									17
18		0.337 B	6	0.17									18
19		0.347 B	6	0.18									19
20		0.355 B	6	0.18									20
21		0.360 B	6	0.19									21
22		0.365 B	5	0.19									22
23		0.367 B	6	0.19									23
24		0.368 B	6	0.19									24
25		0.370 B	6	0.19									25
26		0.360 B	6	0.19									26
27		0.380 B	6	0.16									27
28		0.200 B	5	0.09									28
29		0.160 B	5	0.07									29
30		0.140 B	5	0.06									30
31		0.145 B	5	0.06									31
TOTAL		15.213		9.20									TOTAL
MEAN		0.491		0.30									MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 1 010 ON JUL 04

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 364 ON JUL 04

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 22 N
LONG 117 15 40 W
DRAINAGE AREA 25.4 km^2
NATURAL FLOW

BRITISH COLUMBIA

ARROW CREEK NEAR ERICKSON - STATION NO. 08NN084

SUSPENDED SEDIMENT FOR 1982

JAN

DAY	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)
1		0.350 B	2	0.06
2		0.370 B	2	0.06
3		0.430 B	2	0.07
4		0.460 B	2	0.08
5		0.450 B	2	0.08
6		0.460 B	2	0.08
7		0.450 B	2	0.08
8	0.1	0.470 B	2 S	0.08
9		0.470 B	2	0.08
10		0.460 B	2	0.08
11		0.430 B	2	0.07
12		0.402	2	0.07
13		0.405	2	0.07
14		0.415	2	0.07
15		0.405	2	0.07
16		0.395 B	2	0.07
17		0.388 B	2	0.07
18		0.390 B	2	0.07
19		0.397	2	0.07
20		0.397	2	0.07
21		0.394	2	0.07
22		0.390 B	1	0.03
23		0.385 B	1	0.03
24		0.388 B	1	0.03
25		0.394	1	0.03
26		0.391	1	0.03
27		0.388	1	0.03
28		0.388	2	0.07
29		0.377	2	0.07
30		0.382	1	0.03
31		0.382	1	0.03
TOTAL		12.633		1.90
MEAN		0.407		0.06

FEB

TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)
	0.370	2	0.06
	0.372	2	0.06
	0.360 B	2	0.06
	0.345 B	1	0.03
	0.350 B	0	0
0.1	0.355 B	0 S	0
	0.360 B	0	0
	0.355 B	0	0
	0.345 B	0	0
	0.350 B	0	0
	0.370 B	0	0
	0.420 B	0	0
	0.492	0	0
	0.638	2	0.11
	2.59	6	1.34
	2.93	4	1.01
	1.85	4	0.64
	0.670	3	0.17
	0.628	2	0.11
	0.677	2	0.12
	1.07	4	0.37
	0.967	2	0.17
	0.833	2	0.14
	0.738	2	0.13
	0.689	2	0.12
	0.661	2	0.11
	0.625	2	0.11
	0.602	2	0.10
	21.012		4.96
	0.750		0.18

MAR

TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
	0.599	2	0.10	1
	0.605	2	0.10	2
	0.598	2	0.10	3
3.0	0.595	2 S	0.10	4
	0.577	2	0.10	5
	0.578	2	0.10	6
	0.577	2	0.10	7
	0.577	2	0.10	8
	0.597	2	0.10	9
	0.614	2	0.11	10
	0.653	4	0.23	11
	0.649	2	0.11	12
	0.660	2	0.11	13
	0.657	2	0.11	14
	0.676	2	0.12	15
	0.660	2	0.11	16
	0.656	2	0.11	17
	0.641	2	0.11	18
	0.614	2	0.11	19
	0.602	2	0.10	20
	0.593	2	0.10	21
	0.580	2	0.10	22
	0.580	2	0.10	23
	0.594	2	0.10	24
	0.612	2	0.11	25
	0.659	3	0.17	26
	0.724	4	0.25	27
	0.773	5	0.33	28
	0.779	4	0.27	29
	0.754	3	0.20	30
	0.743	2	0.13	31
	19.776		4.09	TOTAL
	0.638		0.13	MEAN

APR

DAY	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)
1		0.727	2	0.13
2		0.691	2	0.12
3		0.684	2	0.12
4		0.675	2	0.12
5	2.5	0.655	2 S	0.11
6		0.644	2	0.11
7		0.631	1	0.05
8	2.0	0.616	1 S	0.05
9		0.617	1	0.05
10		0.600	1	0.06
11		0.870	3	0.23
12		1.71	5	0.74
13		1.95	4	0.67
14		1.85	3	0.48
15	3.0	1.65	1 S	0.14
16		1.42	1	0.12
17		1.29	1	0.11
18		1.20	1	0.10
19		1.12	1	0.10
20		1.06	1	0.09
21		1.19	1	0.10
22	4.5	1.68	2 S	0.28
23		2.47	4	0.85
24		3.18	4	1.10
25	3.0	2.87	3 S	0.74
26		2.94	3	0.76
27	5.0	3.20	3 S	0.83
28		3.55	2	0.61
29	6.0	3.65	1 S	0.30
30		3.16	1	0.27
31				
TOTAL		48.315		9.54
MEAN		1.61		0.32

MAY

TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)
	3.24	1	0.28
3.0	3.58	2 S	0.62
	3.89	4	1.34
4.0	3.58	3 S	0.93
	3.44	3	0.89
3.8	3.44	2 S	0.59
	3.41	1	0.29
5.0	3.48	2 S	0.60
	3.38	3	0.88
5.0	3.44	4 S	1.19
	3.70	5	1.60
5.0	4.00	5 S	1.73
	4.33	8	2.99
5.0	5.05	13 S	5.67
	6.20	12	6.43
4.0	6.84	11 S	6.50
	8.00	35	24.2
4.0	8.21	59 S	41.9
	10.3	40	35.6
6.0	10.5	22 S	20.0
	10.7	21	19.4
5.0	11.3	17 S	16.6
	10.0	15	13.0
7.0	10.1	16 S	14.0
5.5	11.2	33 S	31.9
4.0	20.0	44 S	76.0
5.0	11.7	19 S	19.2
	10.0	8	6.91
	8.43	6	4.37
	7.17	6 S	3.72
	7.00	7	4.77
	220.49		364.10
	7.11		11.7

JUN

TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
7.0	9.85	9 S	7.66	1
	10.2	10	8.81	2
6.0	10.5	9 S	8.16	3
	10.4	7	6.29	4
	9.95	5	4.30	5
5.0	9.60	2 S	1.66	6
	8.27	2	1.43	7
7.0	7.14	3 S	1.85	8
	7.18	4	2.48	9
8.0	7.82	8 S	5.41	10
	8.34	16	11.5	11
	9.04	26	20.3	12
7.0	9.98	76 S	63.8	13
	12.8	92	102	14
7.0	12.3	84 S	89.3	15
	11.6	72	72.2	16
8.0	9.17	31 S	24.6	17
	8.54	18	13.3	18
	8.55	17	12.6	19
9.0	8.00	14 S	9.60	20
	7.70	13	8.65	21
8.0	7.01	14 S	8.48	22
	5.83	10	5.04	23
9.0	4.93	4 S	1.70	24
	4.21	3	1.09	25
	3.89	3	1.01	26
	5.36	6	2.78	27
9.0	3.73	2 S	0.64	28
	3.37	1	0.29	29
	3.06		0.26	30
				31
	238.32		497.27	TOTAL
	7.94		16.6	MEAN

BRITISH COLUMBIA

ARROW CREEK NEAR ERICKSON - STATION NO. 08NN084

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	9.0	3.04	2 S	0.53		1.01	2	0.17		0.654	2	0.11	1
2		3.06	3	0.79	11.0	1.03	1 S	0.09		0.634	2	0.11	2
3		2.93	1	0.25		1.00	2	0.17		0.614	2	0.11	3
4		2.85	1	0.25		0.909	2	0.16		1.01	4	0.35	4
5	7.0	2.83	1 S	0.24		0.848	1	0.07	11.0	0.859	2 S	0.15	5
6		2.59	0	0		0.799	1	0.07		0.700	1	0.06	6
7	9.0	2.39	1 S	0.21		0.780	1	0.07		0.670	1	0.06	7
8		2.18	1	0.19	11.0	0.759	3 S	0.20		0.646	1	0.06	8
9		2.02	1	0.17		0.779	3	0.20		0.693	1	0.06	9
10		1.97	1	0.17		0.942	4	0.33		0.853	2	0.15	10
11		1.88	0	0		0.979	3	0.25		0.724	1	0.06	11
12	11.0	1.81	0 S	0		1.02	3	0.26	8.0	0.736	0 S	0	12
13		1.72	0	0		1.26	4	0.44		1.14	3	0.30	13
14		1.89	2	0.33		1.32	4	0.46		0.907	2	0.16	14
15		1.83	2	0.32	9.0	1.06	1 S	0.09	7.0	0.838	1 S	0.07	15
16		1.79	1	0.15		0.970	1	0.08		0.838	1	0.07	16
17		1.69	1	0.15		0.872	1	0.08		0.835	0	0	17
18	11.0	1.64	0 S	0		0.804	2	0.14		0.829	0	0	18
19		1.57	0	0		0.776	2	0.13	9.0	0.792	0 S	0	19
20		1.53	1	0.13		0.752	3	0.19		0.761	0	0	20
21		1.47	1	0.13		0.745	3	0.19		0.778	0	0	21
22		1.38	1	0.12	12.0	0.720	4 S	0.25		0.765	0	0	22
23		1.36	1	0.12		0.704	3	0.18		0.731	0	0	23
24		1.29	1	0.11		0.692	3	0.18		0.731	0	0	24
25	11.0	1.23	2 S	0.21		0.681	3	0.18		0.735	0	0	25
26		1.19	2	0.21		0.662	3	0.17		1.38	1 S	0.12	26
27		1.15	1	0.10		0.647	2	0.11	9.0	0.970	0	0	27
28		1.11	1	0.10		0.636	2	0.11		0.974	0	0	28
29	11.0	1.01	1 S	0.09	10.0	0.655	2 S	0.11		1.02	0	0	29
30		0.924	1	0.08		0.673	3	0.17		0.937	1	0.08	30
31		0.904	1	0.08		0.696	3	0.18					31
TOTAL		56.228		5.23		26.180		5.48		24.754		2.08	TOTAL
MEAN		1.81		0.17		0.845		0.18		0.825		0.07	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.889	1	0.08		0.947	1	0.08		0.611	0	0	1
2		0.895	1	0.08		0.886	1	0.08		0.611	0	0	2
3	7.0	0.892	2 S	0.15		0.922	0	0		0.687	0	0	3
4		0.824	1	0.07		0.889	0	0		1.21	3	0.35	4
5		0.817	1	0.07		0.892	0	0		0.862	2	0.19	5
6		0.798	0	0		0.871	1	0.08					6
7		0.932	1	0.08	3.0	0.820	2 S	0.14	0.1	0.778	2 S	0.13	6
8		0.820	1	0.07		0.772	0	0		0.740 B	1	0.06	7
9		0.788	0	0		0.774	0	0		0.710 B	0	0	8
10	3.0	0.781	0 S	0		0.721	0	0		0.688 B	0	0	9
11		0.786	0	0	1.0	0.752	1 S	0.06		0.650 B	0	0	10
12		0.778	0	0		0.716	0	0		0.620 B	0	0	11
13		0.763	0	0		0.692	0	0		0.590 B	0	0	12
14	5.0	0.762	0 S	0	0.1	0.686	0 S	0		0.580 B	0	0	13
15		0.759	0	0		0.747	0	0		0.580 B	1	0.05	14
16		0.733	0	0		0.726	0	0		0.600 B	3	0.16	15
17	6.0	0.868	2 S	0.15		0.730	0	0		0.630 B	5	0.27	16
18		0.762	0	0		0.741	0	0		0.619	2	0.11	17
19		0.736	0	0		0.733	0	0		0.602	2	0.10	18
20		0.736	0	0		0.703	0	0		0.606	2	0.10	19
21		0.727	0	0		0.680	0	0		0.601	1	0.05	20
22		0.872	1	0.08		0.638	0	0		0.592	1	0.05	21
23		1.11	1	0.10		0.620 B	0	0		0.570	1	0.05	22
24	7.0	1.06	1 S	0.09		0.600 B	0	0		0.559	1	0.05	23
25		1.02	1	0.09		0.580 B	0	0		0.559	1	0.05	24
26		1.15	1	0.10		0.600 B	0	0		0.571	1	0.05	25
27		1.10	1	0.10		0.620 B	0	0		0.567	1	0.05	26
28		1.09	1	0.09		0.641	0	0		0.550 B	0	0	27
29		1.07	1	0.09		0.636	0	0		0.540 B	0	0	28
30		1.02	1	0.09		0.630	1	0.05		0.530 B	0	0	29
31	3.0	0.999	1 S	0.09						0.510 B	0	0	30
										0.490 B	0	0	31
TOTAL		27.337		1.67		21.965		0.49		19.597		1.79	TOTAL
MEAN		0.882		0.05		0.732		0.02		0.632		0.06	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	14	
MAXIMUM DAILY	92	ON JUN 16
MINIMUM DAILY	0	ON FEB 05

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	2.46	
MAXIMUM DAILY	103	ON JUN 16
MINIMUM DAILY	0	ON FEB 05

TOTAL SUSPENDED SEDIMENT LOAD 898.69 t

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 09 32 N
LONG 116 27 04 W
DRAINAGE AREA 78.7 km^2
NATURAL FLOW

BRITISH COLUMBIA

CARNATION CREEK AT THE MOUTH - STATION NO. 08HB048

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	2.5	0.217	1 S	0.02	6.0	0.992	4	0.34	5.5	5.16	6 S	2.67	1
2	2.5	0.190	0	0	5.0	0.750	2 S	0.13	5.5	2.22	1 S	0.19	2
3	2.0	0.169	0 S	0	5.1	0.490	2 S	0.08	5.5	2.29	1 S	0.20	3
4	2.0	0.153	0 S	0	4.9	0.372	2 S	0.06	5.0	1.00	1 S	0.09	4
5	1.0	0.136	0 S	0	5.0	0.300	1 S	0.03	5.1	0.578	1 S	0.05	5
6	1.5	0.125	1 S	0.01	4.8	0.256	2 S	0.04	5.1	0.434	1 S	0.04	6
7	3.0	0.516	5 S	0.22	4.5	0.224	2 S	0.04	5.0	0.353	1	0.03	7
8	3.5	7.61	16 S	10.5	5.0	0.201	2	0.03	5.0	0.309	1 S	0.03	8
9	4.5	1.94	3 S	0.50		0.178	1 S	0.02	6.2	0.307	1 S	0.03	9
10	5.0	0.943	3 S	0.24	4.3	0.163	1 S	0.01	6.5	0.300	1 S	0.03	10
11	5.0	0.866	2 S	0.15	4.1	0.191	0 S	0	5.0	0.317	1 S	0.03	11
12	5.0	0.553	1 S	0.05	6.0	3.10	3 S	0.80	6.0	0.456	1 S	0.04	12
13	5.0	0.488	2 S	0.08	5.0	6.27	6 S	3.25	5.5	0.583	1 S	0.05	13
14	6.0	1.26	3 S	0.33	6.0	2.67	3	0.69	4.6	0.402	1	0.03	14
15	5.5	1.03	2 S	0.18	6.0	6.00	18	9.33	5.0	0.294	1 S	0.03	15
16	6.0	4.86	5 S	2.10	6.5	4.63	11 S	4.40	5.0	0.248	1 S	0.02	16
17	5.0	3.78	4 S	1.31	6.0	2.23	1 S	0.19	5.5	0.214	1 S	0.02	17
18	5.0	1.23	2 S	0.21	6.0	3.30	5 S	1.43	5.5	0.189	0 S	0	18
19	5.0	0.572	2 S	0.10	7.0	4.90	3 S	1.27	5.5	0.173	0 S	0	19
20	5.0	0.405	2 S	0.07	6.5	2.72	3	0.71	5.2	0.161	1 S	0.01	20
21	4.5	0.831	1 S	0.04	5.5	1.07	2	0.18	5.2	0.148	1	0.01	21
22	2.5	0.347	1 S	0.03	4.5	0.809	1	0.07	5.8	0.141	1 S	0.01	22
23	3.5	13.7	44 S	52.1	4.5	0.541	1	0.05	6.0	0.133	1 S	0.01	23
24	5.5	3.14	15 S	4.07	4.5	0.914	5 S	0.39	6.3	0.128	1 S	0.01	24
25	5.0	3.61	17 S	5.30	5.5	3.63	2 S	0.63	7.5	0.150	2 S	0.03	25
26	5.0	4.85	12 S	5.03	5.8	2.91	0 S	0	6.5	0.362	3 S	0.09	26
27	5.0	1.38	8	0.95	5.0	1.95	2 S	0.34	7.0	0.338	2 S	0.06	27
28	5.0	0.627	2	0.11	5.8	1.05	2 S	0.18	6.0	0.539	3	0.14	28
29	6.0	1.43	7 S	0.86					5.8	1.29	6 S	0.67	29
30	6.0	3.02	7 S	1.83					5.5	0.994	4 S	0.34	30
31	4.5	1.80	4 S	0.62					5.5	1.11	3 S	0.29	31
TOTAL		61.376		87.01		52.811		24.69		21.321		5.25	TOTAL
MEAN		1.98		2.81		1.89		0.88		0.688		0.17	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	5.5	1.27	2 S	0.22	6.0	0.284	2 S	0.05	10.8	0.065	1	0.01	1
2	5.0	0.921	1 S	0.08	6.0	0.356	2	0.06	10.2	0.059	1	0.01	2
3	5.6	0.596	1 S	0.05	5.5	0.547	2 S	0.09	10.2	0.054	1	0	3
4	4.9	0.647	3	0.17	6.0	0.397	2 S	0.07	10.0	0.048	1	0	4
5	5.2	0.426	2 S	0.07	6.5	0.302	2 S	0.05	11.0	0.044	1	0	5
6	5.8	0.328	2 S	0.06	7.5	0.291	1 S	0.03	10.8	0.037	0	0	6
7	6.0	0.280	1 S	0.02	7.5	0.283	1 S	0.02	11.0	0.034	0	0	7
8	6.0	0.245	1 S	0.02	7.5	0.249	1 S	0.02	11.2	0.030	0	0	8
9	6.0	0.230	1 S	0.02	7.5	0.220	1	0.02	11.4	0.029	0	0	9
10	7.0	0.239	1 S	0.02	8.2	0.206	1 S	0.02	12.0	0.025	0	0	10
11	6.5	0.324	1	0.03	8.5	0.201	1 S	0.02	12.5	0.025	0	0	11
12	6.0	3.25	8 S	2.25	8.3	0.189	1 S	0.02	12.0	0.026	0	0	12
13	5.5	3.05	4 S	1.05	7.8	0.184	1 S	0.02	12.5	0.020	0	0	13
14	5.0	1.71	2	0.30	8.0	0.178	1 S	0.02	12.2	0.021	0	0	14
15	5.5	1.36	2 S	0.24	8.0	0.164	1 S	0.01	12.5	0.021	0	0	15
16	5.5	1.33	3 S	0.34	8.7	0.184	1	0.02	13.0	0.020	0	0	16
17	4.5	2.11	4 S	0.73	7.8	0.232	1 S	0.02	13.2	0.018	0	0	17
18	4.0	0.690	1 S	0.06	8.0	0.201	1 S	0.02	15.0	0.015	0	0	18
19	4.5	0.430	2 S	0.07	8.5	0.158	1 S	0.01	15.2	0.014	0	0	19
20	4.8	0.339	1 S	0.03	9.2	0.142	1 S	0.01	14.2	0.012	0	0	20
21	6.0	0.369	0	0	9.2	0.140	1 S	0.01	13.5	0.011	0	0	21
22	6.0	0.514	3 S	0.13	9.2	0.136	1 S	0.01	13.2	0.011	0	0	22
23	5.5	0.445	1 S	0.04	9.2	0.120	2	0.02	13.0	0.011	0	0	23
24	6.0	0.290	0 S	0	10.0	0.115	2 S	0.02	14.0	0.011	0	0	24
25	6.0	0.231	2 S	0.04	10.6	0.130	2 S	0.02	14.0	0.009	0	0	25
26	6.0	0.214	2 S	0.04	10.1	0.106	2 S	0.02	13.0	0.058	1	0.01	26
27	6.0	0.212	1 S	0.02	9.8	0.088	2 S	0.02	13.0	0.156	1	0.01	27
28	6.0	0.496	2	0.09	10.7	0.083	2 S	0.01	12.0	0.236	3	0.06	28
29	5.4	0.419	2 S	0.07	10.6	0.078	2 S	0.01	12.5	0.108	2 S	0.02	29
30	5.3	0.327	2 S	0.06	11.6	0.074	2	0.01	13.5	0.060	1	0.01	30
31					11.2	0.072	1 S	0.01					31
TOTAL		23.292		6.32		6.110		0.73		1.288		0.13	TOTAL
MEAN		0.776		0.21		0.197		0.02		0.043		0	MEAN

BRITISH COLUMBIA

CARNATION CREEK AT THE MOUTH - STATION NO. 08HB048

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	12.5	0.088	1	0	13.0	0.011	2	0	14.0	0.007	1	0	1
2	12.5	0.038	1	0	12.4	0.010	2	0	13.8	0.007	1	0	2
3	12.2	0.260	3	0.07	12.5	0.009	2 S	0	14.5	0.007	1	0	3
4	11.2	0.276	4	0.10	12.5	0.009	2	0	14.0	0.006	1	0	4
5	11.5	0.190	3	0.05	12.5	0.009	2 S	0	13.5	0.005	1	0	5
6	11.5	0.140	3	0.04	13.0	0.010	2 S	0	13.5	0.006	1	0	6
7	12.0	0.095	3 S	0.02	13.5	0.009	2 S	0	13.5	0.007	1	0	7
8	12.0	0.069	3 S	0.02	13.6	0.009	2	0	14.0	0.020	1 S	0	8
9	12.5	0.055	3 S	0.01	13.5	0.009	2 S	0	13.0	0.534	10 S	0.46	9
10	13.0	0.044	3 S	0.01	13.0	0.009	2 S	0	12.5	0.205	8 S	0.14	10
11	13.0	0.036	2	0.01	13.0	0.008	2	0	13.0	0.352	13 S	0.40	11
12	13.0	0.029	2 S	0.01	13.5	0.010	2	0	12.5	0.228	7 S	0.14	12
13	13.0	0.029	2	0.01	13.0	0.141	2	0.02	12.0	0.129	3 S	0.03	13
14	13.0	0.031	2	0.01	13.5	0.095	1	0.01	12.0	0.091	3	0.02	14
15	12.5	0.031	2 S	0.01	13.0	0.050	1	0	12.0	0.065	3 S	0.02	15
16	13.2	0.030	2	0.01	13.0	0.032	1 S	0	12.0	0.050	3 S	0.01	16
17	13.0	0.025	2	0	13.0	0.021	1	0	12.0	0.042	3 S	0.01	17
18	13.2	0.022	2	0	13.0	0.017	1	0	12.0	0.036	3 S	0.01	18
19	13.5	0.021	2 S	0	13.2	0.015	0 S	0	12.0	0.030	2 S	0.01	19
20	13.0	0.021	3 S	0.01	13.0	0.013	0	0	13.0	0.026	2 S	0	20
21	13.0	0.019	3	0	13.5	0.009	0	0	13.0	0.023	1	0	21
22	13.0	0.017	3	0	14.0	0.008	0	0	12.0	0.022	2 S	0	22
23	13.0	0.017	3	0	14.0	0.008	0	0	12.0	0.019	2 S	0	23
24	13.5	0.017	3	0	14.0	0.008	0	0	12.0	0.017	2 S	0	24
25	13.5	0.014	3	0	14.0	0.007	0	0	12.0	0.026	2 S	0	25
26	13.5	0.014	3	0	15.0	0.008	0	0	12.0	0.060	1 S	0.01	26
27	14.0	0.014	3	0	14.0	0.007	0	0	11.0	0.050	1 S	0	27
28	14.0	0.014	3 S	0	14.0	0.008	1	0	11.0	0.037	2	0.01	28
29	14.0	0.015	2 S	0	13.0	0.008	1	0	10.0	0.026	2 S	0	29
30	14.0	0.015	2	0	14.0	0.007	1 S	0	9.5	0.022	2 S	0	30
31	13.0	0.011	2	0	14.0	0.007	1	0					31
TOTAL		1.657		0.39		0.581		0.03		2.155		1.27	TOTAL
MEAN		0.053		0.01		0.019		0		0.072		0.04	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	10.0	0.022	2 S	0	8.5	1.04	4 S	0.36	7.0	1.24	1 S	0.11	1
2	11.0	0.101	2	0.02	8.0	0.465	4 S	0.16	7.0	1.92	2 S	0.33	2
3	10.5	0.084	2 S	0.01	9.0	0.382	3 S	0.10	8.0	7.44	10 S	6.43	3
4	11.0	0.061	1 S	0.01	9.0	1.61	4 S	0.56	7.0	1.31	1 S	0.11	4
5	11.0	0.085	1 S	0.01	8.6	1.88	3 S	0.49	6.5	0.565	1	0.05	5
6	10.8	4.33	10 S	3.74	8.5	1.35	2	0.23	6.5	0.393	0 S	0	6
7	9.9	1.09	6 S	0.57	8.0	4.31	6 S	2.23	5.0	0.314	0	0	7
8	10.0	0.403	3 S	0.10	8.0	2.00	2 S	0.35	5.0	0.265	1 S	0.02	8
9	10.5	0.253	3	0.07	7.0	0.658	2 S	0.11	4.8	0.233	1 S	0.02	9
10	10.5	0.175	2 S	0.03	6.0	0.405	3 S	0.10	4.8	0.208	1	0.02	10
11	10.0	0.128	2 S	0.02	5.8	0.290	3 S	0.08	5.0	0.201	0	0	11
12	10.0	0.108	1 S	0.01	6.4	0.245	2 S	0.04	6.1	0.820	4 S	0.28	12
13	9.8	0.091	3 S	0.02	5.8	0.210	1	0.02	6.0	0.616	2 S	0.11	13
14	9.9	0.082	3 S	0.02	5.5	0.185	3 S	0.05	6.0	3.08	4 S	1.06	14
15	10.1	0.070	2 S	0.01	6.1	0.208	4 S	0.07	7.0	3.65	3 S	0.95	15
16	11.0	0.080	3	0.02	6.5	3.07	4 S	1.06	7.5	6.91	7 S	4.18	16
17	9.0	0.090	3 S	0.02	7.5	1.43	1 S	0.12	7.0	5.20	3 S	1.35	17
18	8.0	0.074	2 S	0.01	6.5	0.550	2 S	0.10	6.5	6.00	3 S	1.56	18
19	8.0	0.064	2 S	0.01	7.0	0.411	2 S	0.07	6.0	5.26	5 S	2.27	19
20	8.5	0.063	2 S	0.01	6.0	0.362	2	0.06	6.0	1.20	1	0.10	20
21	10.0	0.721	6 S	0.37	5.5	0.295	1 S	0.03	6.0	0.718	1 S	0.06	21
22	11.5	10.3	45 S	40.0	5.0	0.245	1 S	0.02	6.0	1.36	4 S	0.47	22
23	11.0	5.51	29 S	13.8	5.0	0.209	0 S	0	5.0	1.10	4	0.38	23
24	12.0	9.26	24 S	19.2	5.0	0.189	1 S	0.02	5.5	2.04	4 S	0.71	24
25	11.0	7.53	11 S	7.16	4.9	0.175	2 S	0.03	6.0	4.69	3 S	1.22	25
26	11.0	5.35	8 S	3.70	5.5	1.40	7 S	0.85	5.0	1.35	0 S	0	26
27	10.0	3.14	3 S	0.81	6.3	2.70	4 S	0.93	4.0	0.640	1 S	0.06	27
28	10.0	4.16	4 S	1.44	6.9	2.47	2 S	0.43	3.5	0.452	2 S	0.08	28
29	8.9	1.09	2 S	0.19	7.0	2.72	3 S	0.71	4.0	0.357	1 S	0.03	29
30	8.9	0.515	1	0.04	7.0	1.70	2 S	0.29	3.5	0.317	1 S	0.03	30
31	9.8	1.58	7 S	0.96					3.5	0.278	1 S	0.02	31
TOTAL		56.610		92.38		33.164		9.67		60.127		22.01	TOTAL
MEAN		1.83		2.98		1.11		0.32		1.94		0.71	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	9	
MAXIMUM DAILY	45	ON OCT 22
MINIMUM DAILY	0	ON JAN 02

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	0.68	
MAXIMUM DAILY	52.1	ON JAN 23
MINIMUM DAILY	0	ON JAN 02

TOTAL SUSPENDED SEDIMENT LOAD 249.91 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 54 56 N
LONG 124 59 52 W

DRAINAGE AREA 10.1 km^2
NATURAL FLOW

S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

CARNATION CREEK AT THE MOUTH - STATION NO. 08HB048

BED LOAD PARTICLE-SIZE ANALYSIS FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES												METHOD OF ANALYSIS	TYPE OF SAMPLER
				0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000	
JAN 08	17:22	8.33H	4					2	8	22	40	62	90	100			S	ARMTEM

H - DAILY MEAN DISCHARGE

BRITISH COLUMBIA

DICKEBUSCH CREEK NEAR THE MOUTH - STATION NO. 07FB004

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0 B				0 B				0.002 B			1
2		0 B				0.001 B				0.003 B			2
3		0 B				0.002 B				0.005 B			3
4		0 B				0.003 B				0.006 B			4
5		0.001 B				0.004 B				0.007 B			5
6		0.001 B				0.004 B							
7		0.001 B				0.003 B				0.006 B			6
8		0.001 B				0.003 B				0.005 B			7
9		0.001 B				0.004 B				0.006 B			8
10		0.002 B				0.004 B				0.007 B			9
11		0.002 B				0.004 B				0.009 B			10
12		0.003 B				0.004 B				0.008 B			11
13		0.003 B				0.003 B				0.008 B			12
14		0.002 B				0.004 B				0.007 B			13
15		0.002 B				0.005 B				0.007 B			14
16		0.002 B				0.008 B				0.008 B			15
17		0.002 B				0.010 B				0.008 B			16
18		0.001 B				0.012 B				0.007 B			17
19		0 B				0.012 B				0.007 B			18
20		0 B				0.010 B				0.009 B			19
21		0 B				0.007 B				0.011 B			20
22		0 B				0.005 B				0.015 B			21
23		0 B				0.003 B				0.016 B			22
24		0 B				0.002 B				0.015 B			23
25		0 B				0.001 B				0.014 B			24
26		0 B				0.001 B				0.014 B			25
27		0 B				0.001 B				0.016 B			26
28		0 B				0.001 B				0.013 B			27
29		0 B								0.013 B			28
30		0 B								0.012 B			29
31		0 B								0.012 B			30
													31
TOTAL		0.024				0.121				0.288			TOTAL
MEAN		0.001				0.004				0.009			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.012 B				0.086 B	40	0.30	11.0	1.83	23 S	3.64	1
2		0.012 B				0.160 B	39	0.54		1.76	28	4.26	2
3		0.012 B				0.295 B	36	0.92	12.0	1.59	35 S	4.81	3
4		0.012 B				0.500 B	31	1.34		1.56	47 E	6.33	4
5		0.013 B				1.06 B	29	2.66		3.30	155 E	44.2	5
6		0.014 B				1.22	35	3.69		3.40	161 E	47.3	6
7		0.015 B				2.15	48	8.93		2.95	73 E	18.6	7
8		0.016 B				2.47	61	15.0	6.0	2.66	50 S	11.5	8
9		0.016 B				2.58	72	18.9	5.0	2.33	36 S	7.25	9
10		0.016 B				2.81	78	18.9	12.0	2.04	46 S	7.76	10
11		0.015 B				3.16	78	21.3		1.85	37	5.91	11
12		0.016 B				2.99	79	20.4		1.60	29	4.01	12
13		0.016 B			1.0	2.52	82 S	17.9		1.40	24	2.90	13
14		0.016 B				2.44	99	20.9		1.29	20	2.23	14
15		0.017 B				2.60	138	31.0	13.0	1.15	17 S	1.69	15
16		0.018 B				2.70	157	36.6		1.05	15	1.36	16
17		0.018 B				2.83	163	39.9	14.5	0.935	13 S	1.05	17
18		0.019 B			4.0	3.21	189 S	52.4		0.832	12	0.86	18
19		0.020 B				2.64	135	30.8		0.732	11	0.70	19
20		0.021 B			5.0	2.34	66 S	13.3		0.654	10	0.57	20
21		0.023 B				2.26	40	7.81					
22		0.025 B				2.07	37	6.62	15.0	0.544	9	0.42	21
23		0.026 B				1.86	37	5.95		0.446	8 S	0.31	22
24		0.028 B				1.85	37	5.91	16.0	0.310	7	0.19	23
25		0.029 B				1.91	37	6.11		0.276	6 S	0.14	24
26		0.029 B								0.248	6	0.13	25
27		0.030 B			6.0	1.71	37 S	5.47					
28		0.034 B				1.69	32	4.67		0.222	5	0.10	26
29		0.038 B			10.0	1.56	27 S	3.64		0.204	5	0.09	27
30		0.054 B				1.54	25	3.33		0.187	5	0.08	28
31						1.71	24	3.55	18.0	0.185	5 S	0.08	29
						1.80	23	3.58		0.203	5	0.09	30
													31
TOTAL		0.630				60.721		407.61		37.738		178.56	TOTAL
MEAN		0.021				1.96		13.1		1.26		5.95	MEAN

BRITISH COLUMBIA

DICKEBUSCH CREEK NEAR THE MOUTH - STATION NO. 07FB004

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	19.0	0.197	9 S	0.15		1.80	39	6.07		0.340	13	0.38	1
2		0.374	28	0.76		3.72	116	37.3		0.304	13	0.34	2
3		0.764	77	5.08		10.4	449	403		0.285	12	0.30	3
4		6.15	210	112		5.69	332	163		0.278	12	0.29	4
5		7.13	199	123	12.0	3.64	233 S	73.3		0.300	11	0.29	5
6	10.0	3.53	102 S	31.1		2.74	168	39.8		0.268	11	0.25	6
7	11.0	2.58	46 S	10.3		2.25	136	26.4		0.250	11	0.24	7
8		2.19	35	6.73		1.95	117	19.7		0.240	11	0.23	8
9		1.69	16	2.34		1.79	91	16.1		0.249	10 S	0.22	9
10		1.28	12	1.33		1.61	70	9.74	11.0	0.245	10	0.21	10
11		1.03	11	0.98		1.51	67	8.13		0.270	10	0.23	11
12		0.878	11	0.83		1.36	34	4.00		0.256	10	0.22	12
13	16.0	0.814	39 S	2.74	11.0	1.20	31 S	3.21		0.232	10	0.20	13
14	10.0	4.30 E	9 180 S	3 410		1.21	30	3.18		0.218	10	0.19	14
15		16.1 E	15 400 E	21 400		1.20	28	2.90		0.206	10	0.18	15
16		11.5 E	6 290 E	6 250		1.20	25	2.59		0.199	10	0.17	16
17		7.90 E	2 770 E	1 890		1.11	23	2.21		0.193	10	0.17	17
18		5.30 E	980 E	449		0.930	21	1.69		0.178	9	0.14	18
19		3.65 E	238 E	75.1		0.859	19	1.41		0.172	9	0.13	19
20	11.0	2.32 E	161 S	32.3	12.0	0.722	17 S	1.06		0.166	9	0.13	20
21		3.60 E	217	67.5		0.629	16	0.87		0.168	9	0.13	21
22	10.0	9.00 E	3 040 S	1 590		0.599	16	0.83	11.5	0.169	9 S	0.13	22
23		7.50 E	459	297		0.535	16	0.74		0.163	9	0.13	23
24		5.20 E	299	134		0.490	15	0.64		0.161	9	0.13	24
25		3.90 E	223	75.1		0.472	15	0.61		0.165	8	0.11	25
26	18.5	2.58 A	177 S	39.5		0.469	14	0.57		0.169	8	0.12	26
27	15.0	2.33	132 S	26.6		0.498	14	0.60		0.205	8	0.14	27
28		2.05	96	17.0		0.459	14	0.56		0.436	12	0.45	28
29	17.0	1.87	77 S	12.9		0.431	14	0.52		0.410	10	0.35	29
30		1.76	64	9.73		0.420	14	0.51		0.332	9	0.26	30
31		1.72	52	7.73		0.383	13	0.43					31
TOTAL		121.127		34 078.30		52.276		827.63		7.227		6.46	TOTAL
MEAN		3.91		1 160		1.69		26.7		0.241		0.22	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.303	9	0.24		0.437 B				0.124 B			1
2		0.278	8	0.19		0.342 B				0.117 B			2
3		0.280	7	0.17		0.303 B				0.113 B			3
4		0.267	6	0.14		0.304 B				0.101 B			4
5		0.250	6	0.13		0.299 B				0.086 B			5
6	4.0	0.243	5 S	0.10									6
7		0.394	7	0.24		0.282 B				0.084 B			7
8		0.499	8	0.34		0.261 B				0.085 B			8
9		0.421	5	0.18		0.241 B				0.092 B			9
10		0.396	4	0.14		0.239 B				0.096 B			10
11		0.387	3	0.10		0.242 B				0.090 B			11
12		0.361	3	0.09		0.237 B							12
13		0.364	3	0.09		0.224 B				0.091 B			13
14		0.339	4	0.12		0.221 B				0.094 B			14
15		0.347	4	0.12		0.220 B				0.089 B			15
16		0.340 B	3	0.09		0.223 B				0.085 B			16
17		0.338 B	3	0.09		0.209 B				0.086 B			17
18		0.338 B	3	0.09		0.191 B				0.078 B			18
19		0.340 B	3	0.09		0.176 B				0.070 B			19
20		0.350 B	3	0.09		0.169 B				0.060 B			20
21		0.360	4	0.12		0.168 B				0.052 B			21
22	2.0	0.366	25 S	0.79		0.169 B				0.054 B			22
23		0.548	26	1.23		0.171 B				0.050 B			23
24		0.674	13	0.76		0.170 B				0.052 B			24
25		0.756	7	0.46		0.158 B				0.058 B			25
26		0.707	5	0.31		0.149 B				0.062 B			26
27		0.637	5	0.28		0.147 B				0.060 B			27
28		0.605	4	0.21		0.148 B				0.056 B			28
29		0.584	4	0.20		0.144 B				0.061 B			29
30		0.518	3	0.13		0.142 B				0.066 B			30
31		0.501	2	0.09		0.138 B				0.069 B			31
										0.067 B			
TOTAL		13.091		7.42		6.529				2.436			TOTAL
MEAN		0.422		0.24		0.217				0.078			MEAN

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 33 07 N
LONG 121 35 48 W
DRAINAGE AREA 85.5 km^2
NATURAL FLOW

BRITISH COLUMBIA

DICKEBUSCH CREEK NEAR THE MOUTH - STATION NO. 07FB004

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - FOZIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUL 06	15:05	125 M	10.0	185 X	30	35	45	65	75	83	91	97	100			[redacted]
JUL 14	11:50	152 M	10.0	7 810 X	12	18	27	38	54	73	88	96	99	100		[redacted]
JUL 22	10:14	310 M	10.0	3 650 X	21	28	39	52	65	80	93	99	100			[redacted]
AUG 05	10:57	129 W	12.0	222 X	49	57	68	81	88	96	98	100				[redacted]

M - DAILY MEAN DISCHARGE

X - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

BRITISH COLUMBIA

DUCK CREEK NEAR WYNNDEL - STATION NO. 08NN016

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.362	4	0.13		0.359	4	0.12		0.415	0	0	1
2		0.362	4	0.13		0.355	4	0.12		0.419	0	0	2
3		0.362	4	0.13		0.338	4	0.12		0.419	1	0.04	3
4		0.362	4	0.13		0.317	4	0.11		0.418	2	0.07	4
5		0.362	4	0.13		0.350	5	0.15	0.5	0.414	2 S	0.07	5
6		0.348	4	0.12	0.1	0.348	5 S	0.15		0.410	2	0.07	6
7	0.1	0.382 A	4 S	0.13		0.338	5	0.15		0.412	1	0.04	7
8		0.375	4	0.13		0.335	5	0.14		0.418	1	0.04	8
9		0.371	4	0.13		0.327	5	0.14		0.415	1	0.04	9
10		0.368	4	0.13		0.343	5	0.15	1.5	0.420	1 S	0.04	10
11		0.370	4	0.13		0.347	5	0.15		0.455	4	0.16	11
12		0.374	4	0.13		0.353	5	0.15		0.448	4	0.15	12
13		0.374	4	0.13		0.354	5	0.15		0.444	3	0.12	13
14		0.377	4	0.13		0.391	6	0.20		0.446	3	0.12	14
15		0.379	4	0.13		0.439	7	0.27		0.455	3	0.12	15
16		0.374	4	0.13		0.451	6	0.23		0.453	4	0.16	16
17		0.372	4	0.13		0.441	5	0.19	0.5	0.441	4 S	0.15	17
18		0.374	4	0.13		0.434	4	0.15		0.429	3	0.11	18
19		0.369	4	0.13		0.418	3	0.11		0.426	3	0.11	19
20		0.367	4	0.13		0.468	4	0.16		0.429	3	0.11	20
21		0.366	4	0.13		0.526	6	0.27		0.427	2	0.07	21
22		0.356	4	0.12		0.470	4	0.16		0.433	2	0.07	22
23		0.358	4	0.12		0.454	3	0.12		0.441	1	0.04	23
24		0.366	4	0.13		0.431	2	0.07	2.0	0.436	1 S	0.04	24
25		0.361	4	0.12		0.429	1	0.04		0.436	2	0.08	25
26		0.362	4	0.13		0.420	1	0.04		0.459	3	0.12	26
27		0.365	4	0.13		0.421	1	0.04		0.478	4	0.17	27
28		0.362	4	0.13		0.413	0	0		0.493	4	0.17	28
29		0.357	4	0.12						0.499	4	0.17	29
30		0.364	4	0.13						0.491	4	0.17	30
31		0.360	4	0.12					4.0	0.494	3 S	0.13	31
TOTAL		11.361		3.97		11.070		3.85		13.673		2.95	TOTAL
MEAN		0.366		0.13		0.395		0.14		0.441		0.10	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.486	2	0.08		1.43	4	0.49	8.0	2.70	14 S	3.27	1
2		0.475	2	0.08	4.5	1.62	5 S	0.70		2.91	16	4.02	2
3		0.476	2	0.08		1.75	7	1.06	7.0	2.96	17 S	4.35	3
4		0.476	2	0.08	5.0	1.51	4 S	0.52		2.97	17	4.36	4
5	6.0	0.511	2 S	0.09		1.39	3	0.36	6.0	2.97	15 S	3.85	5
6		0.558	2	0.10	4.5	1.39	4 S	0.48		2.95	11	2.80	6
7		0.558	3	0.14		1.41	4	0.49	6.0	2.75	9 S	2.14	7
8	2.0	0.558	3 S	0.14	5.0	1.44	4 S	0.50		2.65	8	1.83	8
9		0.558	3	0.14		1.36	3	0.35	7.0	2.67	7 S	1.61	9
10		0.585	4	0.20	4.0	1.37	4 S	0.47		2.83	9	2.20	10
11		0.719	7	0.43		1.58	6	0.82	7.0	3.08	14 S	2.73	11
12	4.0	0.929	10 S	0.80	5.5	1.80	8 S	1.20		3.35	26	7.53	12
13		0.998	10	0.86		2.04	8	1.41	7.0	3.61	37 S	11.5	13
14		0.949	7	0.57	5.0	2.25	7 S	1.36		4.19	49	17.7	14
15	3.5	0.848	5 S	0.37		2.55	9	1.98	8.0	5.27	61 S	27.8	15
16		0.796	4	0.28	6.0	2.32	12 S	2.41		4.62	57	22.8	16
17		0.785	4	0.27		3.60	22	4.94	8.0	4.11	46 S	16.3	17
18		0.753	3	0.20	7.0	3.25	57 S	16.0		3.78	35	11.4	18
19	1.5	0.735	3 S	0.19		3.59	61	12.7	9.0	3.68	23 S	7.31	19
20		0.729	3	0.19	6.0	3.21	20 S	5.55		3.28	17	4.82	20
21		0.761	3	0.20		3.52	22	6.69	8.0	2.97	16 S	6.11	21
22	3.0	0.861	4 S	0.30	6.0	3.72	27 S	8.68		3.87	15 S	3.72	22
23		1.15	8	0.79		3.58	25	7.73	9.0	2.68	13 S	2.92	23
24	6.0	1.32	10 S	1.14	6.5	3.63	32 S	10.6		2.97	12	2.56	24
25		1.19	6	0.62	8.0	4.18	63 S	22.8		2.36	11	2.24	25
26	3.9	1.22	6 S	0.62	5.5	4.19	51 S	18.5		2.32	11	2.20	26
27		1.34	6	0.69		3.27	29	8.19		2.50	11	2.38	27
28	4.5	1.54	8 S	1.06	6.5	3.64	16 S	3.65		2.30	9	1.79	28
29		1.47	5	0.66		3.41	12	2.50	9.0	2.20	8 S	1.52	29
30	6.0	1.38	4 S	0.48	5.5	3.41	11 S	2.29	10.0	2.10	6 S	1.09	30
31						2.56	13	2.88					31
TOTAL		25.716		11.63		76.17		148.34		92.02		195.85	TOTAL
MEAN		0.857		0.39		2.46		4.79		3.07		6.20	MEAN

BRITISH COLUMBIA

DUCK CREEK NEAR WYNNDEL - STATION NO. 08NN016

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		2.09	9	1.63		0.893	2	0.15		0.633	3	0.16	1
2	9.0	2.07	10 S	1.79	11.5	0.877	1 S	0.08		0.608	3	0.16	2
3		2.05	7	1.24		0.865	1	0.07		0.603	3	0.16	3
4	8.0	1.99	5 S	0.86		0.852	1	0.07		0.789	5	0.34	4
5		1.98	4	0.68		0.821	1	0.07		0.676	3	0.18	5
6	9.5	1.93	2 S	0.33		0.797	1	0.07					
7		1.90	3	0.49		0.778	1	0.07	13.0	0.619	3 S	0.16	6
8	8.0	1.87	3 S	0.48		0.766	1	0.07		0.607	3	0.16	7
9		1.84	3	0.48	15.0	0.794	2 S	0.14		0.581	3	0.15	8
10		1.80	4	0.62		0.921	3	0.24		0.616	3	0.16	9
11		1.72	4	0.59		0.919	3	0.24	10.0	0.696	3 S	0.18	10
12	10.0	1.69	4 S	0.58		0.860	2	0.15		0.634	3	0.16	11
13		1.57	3	0.41		1.03	4	0.36		0.628	3	0.16	12
14		1.79	6	0.93		0.920	4	0.32	9.0	0.978	5 S	0.42	13
15		1.73	5	0.75		0.808	4	0.28		0.690	2	0.12	14
16		1.68	5	0.73	12.0	0.768	4 S	0.27		0.640	1	0.06	15
17		1.54	5	0.67		0.730	4	0.25	7.0	0.624	1 S	0.05	16
18		1.39	4	0.48		0.717	3	0.19		0.631	1	0.05	17
19	10.0	1.28	4 S	0.44		0.725	3	0.19		0.623	1	0.05	18
20		1.21	4	0.42		0.716	3	0.19		0.603	1	0.05	19
21		1.18	4	0.41		0.711	3	0.19	11.0	0.584	1 S	0.05	20
22		1.17	3	0.30		0.706	2	0.12		0.609	2	0.11	21
23		1.16	2	0.20	10.0	0.682	2	0.12		0.617	2	0.11	22
24		1.10 E	2	0.19		0.680	2 S	0.12		0.593	1	0.05	23
25		1.04 E	1	0.09		0.671	2	0.12		0.575	1	0.05	24
26	10.0	0.980 E	1 S	0.08		0.662	2	0.11		0.594	1	0.05	25
27	13.5	0.922 A	2 S	0.16		0.635	2	0.11	9.0	0.946	4 S	0.33	26
28		0.896	2	0.15		0.634	2	0.11	11.0	0.690	1 S	0.06	27
29		0.866	2	0.15		0.646	3	0.17		0.685	0	0	28
30		0.863	2	0.15	11.0	0.653	3 S	0.17		0.715	1	0.06	29
31		0.856	2	0.15		0.661	3	0.17		0.658	1	0.06	30
													31
TOTAL		46.151		16.63		23.876		4.85		19.785		3.86	TOTAL
MEAN		1.49		0.54		0.770		0.16		0.658		0.13	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.631	1	0.05	5.0	0.599	1 S	0.05		0.462 E	1	0.04	1
2		0.624	1	0.05		0.561	0	0		0.470 E	0	0	2
3		0.623	1	0.05		0.556	0	0		0.515 E	0	0	3
4	7.0	0.626	1 S	0.05		0.560	0	0		0.600 E	0	0	4
5		0.628	1	0.05		0.580	1	0.05		0.570 E	0	0	5
6		0.627	1	0.05		0.593	1	0.05					
7		0.662	1	0.06		0.585	1	0.05	0.8	0.538 A	0 S	0	6
8		0.637	1	0.06	1.5	0.542	1 S	0.05		0.480	0	0	7
9		0.633	1	0.05		0.558	1	0.05		0.473	0	0	8
10		0.622	0	0		0.538	1	0.05		0.505	0	0	9
11	8.0	0.608	0 S	0	1.5	0.531	2 S	0.09		0.484	0	0	10
12		0.600	0	0		0.519	2	0.09		0.490	0	0	11
13		0.607	1	0.05		0.516	2	0.09		0.527	0	0	12
14		0.595	1	0.05		0.498	3	0.13		0.542	0	0	13
15	5.5	0.591	1 S	0.05	0.5	0.487	3 S	0.13		0.524	0	0	14
16		0.595	1	0.05		0.509	3	0.13		0.526	0	0	15
17		0.608	1	0.05		0.534	4	0.18		0.539	0	0	16
18	7.0	0.589	2 S	0.10		0.546 A	3	0.14		0.541	1	0.05	17
19		0.574	2	0.10		0.536 E	3	0.14		0.521	1	0.05	18
20		0.577	2	0.10		0.520 E	2	0.09		0.491	0 S	0	19
21		0.570	2	0.10					2.0	0.467		0	20
22		0.629	2	0.11		0.502 E	1	0.04					
23		0.680	3	0.18	1.0	0.482 A	1 S	0.04		0.447	0	0	21
24		0.633	2	0.11		0.468 E	1	0.04		0.492	0	0	22
25	8.0	0.618	1 S	0.05		0.448 E	1	0.04		0.438	0	0	23
26		0.642	0	0		0.418 E	1	0.04		0.430	0	0	24
27		0.633	0	0						0.431	0	0	25
28		0.615	0	0		0.422 E	1	0.04					
29		0.626	0	0		0.427 E	1	0.04		0.426	0	0	26
30		0.618	1	0.05	2.5	0.433 E	1	0.04		0.412	0	0	27
31		0.613	0	0		0.442 A	1 S	0.04		0.416	0	0	28
						0.452 E	1	0.04		0.406	0	0	29
										0.398	0	0	30
										0.391	0	0	31
TOTAL		19.132		1.62		15.346		1.95		14.900		0.19	TOTAL
MEAN		0.617		0.05		0.511		0.07		0.481		0	MEAN

SUMMARY FOR THE MONTHS APR TO DEC

TOTAL SUSPENDED SEDIMENT LOAD 374.08 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	13	
MAXIMUM DAILY	63	ON MAY 25
MINIMUM DAILY	0	ON FEB 28

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	1.36	
MAXIMUM DAILY	27.8	ON JUN 15
MINIMUM DAILY	0	ON FEB 28

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 10 N
LONG 116 21 56 W
DRAINAGE AREA 57.0 km^2
NATURAL FLOW

A - MANUAL GAUGE

E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

FORREST KERR CREEK ABOVE 460 M CONTOUR - STATION NO. 08CG006

SUSPENDED SEDIMENT FOR 1983

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		2.32 B				1.53 B				0.960 B			1
2		2.29 B				1.51 B				0.940 B			2
3		2.26 B				1.49 B				0.930 B			3
4		2.23 B				1.47 B				0.910 B			4
5		2.20 B				1.45 B				0.900 B			5
6		2.19 B				1.44 B				0.890 B			6
7		2.17 B				1.42 B				0.880 B			7
8		2.13 B				1.40 B				0.870 B			8
9		2.09 B				1.39 B				0.860 B			9
10		2.01 B				1.38 B				0.850 B			10
11		1.99 B				1.38 B				0.845 B			11
12		1.97 B				1.34 B				0.840 B			12
13		1.95 B				1.29 B				0.830 B			13
14		1.92 B				1.27 B				0.820 B			14
15		1.90 B				1.24 B				0.810 B			15
16		1.89 B				1.20 B			0.1	0.800 B	3 B	0.21	16
17		1.87 B				1.18 B				0.800 B			17
18		1.83 B				1.16 B				0.800 B			18
19		1.80 B				1.13 B				0.790 B			19
20		1.75 B				1.11 B				0.780 B			20
21		1.76 B				1.10 B				0.770 B			21
22		1.74 B				1.08 B				0.760 B			22
23		1.72 B				1.06 B				0.750 B			23
24		1.70 B				1.05 B				0.740 B			24
25		1.68 B				1.03 B				0.730 B			25
26		1.65 B				1.01 B				0.720 B			26
27		1.63 B				1.00 B				0.720 B			27
28		1.61 B				0.970 B				0.720 B			28
29		1.59 B								0.710 B			29
30		1.57 B								0.700 B			30
31		1.55 B								0.700 B			31
TOTAL		59.00				35.080				25.125			TOTAL
MEAN		1.90				1.25				0.810			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.700 B				2.50	1	0.22					
2		0.700 B				2.59	1	0.22	3.0	23.3	97 B	195	1
3		0.695 B			2.5	2.68	1 B	0.23	2.0	28.5	119 B	293	2
4		0.690 B			1.0	2.76	2 B	0.48	2.5	33.0	131 B	374	3
5		0.680 B			2.0	3.12	5 B	1.35	2.0	33.5	185 B	535	4
6		0.680 B							3.0	30.5	126 B	332	5
7		0.680 B			1.5	3.89	8 B	1.30	2.0	32.7	101 B	285	6
8		0.680 B			1.0	4.72	7 B	2.85	3.0	33.5	134 B	392	7
9		0.670 B			1.0	5.35	8 B	1.85	3.5	37.3	198 B	638	8
10		0.675 B			1.5	5.39	5 B	2.33	3.5	39.4	226 B	769	9
11		0.675 B			1.5	5.60	11 B	5.32	3.5	40.5	235 B	822	10
12		0.680 B			1.5	6.12	5 B	2.64	5.5	46.0	237 B	942	11
13		0.690 B			1.0	7.17	12 B	7.63	5.5	53.1	273 B	1 250	12
14		0.720 B			1.5	6.10	6 B	3.16	4.5	56.8	360 B	1 770	13
15		0.740 B			1.0	5.79	3 B	1.50	4.5	58.8	406 B	2 060	14
16		0.780 B			1.0	6.17	4 B	2.13	4.5	53.2	400 B	1 840	15
17		0.820 B			1.5	6.75	8 B	4.67	4.5	52.7	378 B	1 720	16
18		0.900 B			3.0	11.4	22 B	21.7	5.5	58.5	436 B	2 200	17
19	0.5	0.960 B	2 B	0.17	2.5	11.2	16 B	15.5	6.0	64.3	451 B	2 510	18
20		1.00 B			2.5	9.30	13 B	10.8		71.3	446	2 750	19
21		1.09 B			2.5	9.02	14 B	11.6	6.5	77.5	481 B	2 950	20
22		1.19 B			1.5	8.35	12 B	8.86	5.0	77.8	466 B	3 130	21
23		1.25 B			2.0	7.76	13 B	8.69	3.0	71.3	412 B	2 540	22
24		1.40 B			2.0	8.09	10 B	6.99	4.0	69.1	377 B	2 250	23
25		1.55 B			2.5	8.11	5 B	3.50		73.5	404 B	2 570	24
26		1.75 B			1.5	8.64	5 B	3.73	4.0	85.6	476 B	3 530	25
27		2.04			1.5	8.59	5 B	3.71					
28		2.31			2.5	9.48	4 B	3.28	6.5	98.0	586 B	4 980	26
29		2.62			4.0	12.0	14 B	19.5	3.5	109	608 B	5 730	27
30		2.65			1.0	14.9	65 B	83.7	3.5	116	586 B	5 770	28
31					3.0	17.6	66 B	100	2.5	113	540 B	5 270	29
					2.5	20.8	102 B	183	2.5	104	456 B	4 180	30
													31
TOTAL		32.665				202.72		516.88		1 893.1		64 587	TOTAL
MEAN		1.08				7.83		16.7		61.4		2 150	MEAN

BRITISH COLUMBIA

FORREST KERR CREEK ABOVE 460 M CONTOUR - STATION NO. 08CG006

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	3.0	111	423 S	4 060	2.5	120	686 S	7 110	3.0	77.1	219 S	1 460	1
2	4.0	109	411 S	3 870	3.5	101	498 S	4 350	3.0	125	943 S	10 200	2
3	3.5	108	408 S	3 810	3.0	94.2	411 S	3 350	3.0	135	1 610 S	18 800	3
4	3.5	106	348 S	3 190	2.5	73.9	381 S	2 430	3.0	114	1 350 S	13 300	4
5	3.0	99.0	368 S	3 150	2.5	67.8	290 S	1 700	3.0	89.6	805 S	6 230	5
6	3.5	91.4	335 S	2 650	3.0	66.4	213 S	1 220	3.0	102	509 S	4 490	6
7	3.5	93.5	295 S	2 380	2.5	64.1	184 S	1 020	3.0	103	525 S	4 670	7
8	3.5	86.6	297 S	2 220	3.5	76.4	283 S	1 870	3.0	71.2	533 S	3 280	8
9	3.0	84.6	265 S	1 940	3.0	97.6	376 S	3 170	3.0	60.8	282 S	1 480	9
10	3.0	89.0	265 S	2 050	2.5	93.9	385 S	3 120	3.0	53.5	235 S	1 090	10
11	3.5	81.1	263 S	1 840	3.5	83.6	318 S	2 300	2.5	42.8	257 S	950	11
12	3.5	76.4	220 S	1 450	3.0	82.2	262 S	1 860	2.5	37.9	141 S	462	12
13	3.0	82.3	181 S	1 290	2.5	73.4	210 S	1 330	3.0	38.1	114 S	375	13
14	3.0	93.1	248 S	1 990	3.0	68.9	199 S	1 180	2.5	42.0	107 S	396	14
15	3.0	98.4	317 S	2 700	4.0	81.0	236 S	1 650	3.5	53.4	158 S	729	15
16	3.5	105	348 S	3 160	3.0	91.8	280 S	2 220	3.5	61.4	239 S	1 270	16
17	3.5	104	338 S	3 040	3.0	90.5	248 S	1 940	3.0	69.9	277 S	1 670	17
18	2.5	102	347 S	3 060	2.5	87.2	261 S	1 970	3.5	72.6	283 S	1 780	18
19	3.0	91.9	345 S	2 740	3.0	69.2	188 S	1 120	3.0	71.3	330 S	2 030	19
20	3.0	92.7	285 S	2 280	3.5	67.4	176 S	1 020	3.5	77.0	308 S	2 050	20
21	3.5	92.5	257 S	2 050	4.5	75.4	203 S	1 320	2.5	67.5	272 S	1 590	21
22	3.5	111	313 S	3 000	2.5	83.8	201 S	1 460	3.0	51.8	122 S	546	22
23	4.0	118	418 S	4 260	3.0	79.4	192 S	1 320	2.0	42.7	163 S	601	23
24	3.5	111	343 S	3 290	3.5	83.7	236 S	1 710	2.5	45.4	118 S	463	24
25	3.0	113	306 S	2 990	3.0	110	396 S	3 760	2.5	55.1	139 S	662	25
26	3.5	124	390 S	4 180	3.0	118	453 S	4 620	3.5	55.7	179 S	841	26
27	4.0	127	400 S	4 390	2.5	115	453 S	4 500	3.0	56.0	166 S	803	27
28	3.5	138	456 S	5 440	3.0	107	461 S	4 260	2.0	41.6	142 S	510	28
29	3.5	144	521 S	6 480	3.5	93.2	299 S	2 410	2.5	30.7	116 S	302	29
30	2.5	156	607 S	8 180	2.5	78.4	217 S	1 470	2.5	40.1	118 S	409	30
31	2.0	169	732 S	10 700	2.5	76.2	190 S	1 250					31
TOTAL		3 308.9		107 830		2 670.6		74 010		1 985.0		83 450	TOTAL
MEAN		107		3 480		86.1		2 390		66.2		2 780	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	2.0	46.6	168 S	676		8.36				2.40 B			1
2	2.0	44.2	164 S	626		7.99				2.36 B			2
3	2.0	38.3	193 S	639		7.75				2.31 B			3
4	2.0	29.8	178 S	458		7.75				2.26 B			4
5	2.0	25.0	100 S	219		7.49				2.22 B			5
6	2.0	21.9	109 S	206		7.25				2.18 B			6
7	2.5	19.7	101 S	172		6.90				2.14 B			7
8	2.0	16.5	87 S	124		6.40				2.10 B			8
9	2.0	22.3	100 S	193		6.38				2.06 B			9
10	2.5	54.3	295 S	1 380		6.40				2.03 B			10
11	2.5	43.5	369 S	1 390		5.85 A				2.00 B			11
12	2.5	57.0	437 S	2 150		5.30 B				1.98 B			12
13	3.0	72.2	738 S	4 600		4.95 B				1.96 B			13
14	2.0	75.3	1 050 S	6 830		4.70 B				1.93 B			14
15	1.5	65.2	957 S	5 390		4.65 B				1.91 B			15
16	1.0	52.9	890 S	4 070		4.20 B				1.88 B			16
17	1.0	47.2	660 S	2 690		4.00 B				1.85 B			17
18	1.0	38.0	489 S	1 610		3.80 B				1.83 B			18
19	0.1	28.9	376 S	939		3.65 B				1.81 B			19
20	0.1	23.0	306 S	608		3.50 B				1.79 B			20
21	1.0	18.5	225 S	360		3.36 B				1.78 B			21
22	1.0	16.0	201 S	278		3.22 B				1.76 B			22
23	1.0	14.6	165 S	208		3.08 B				1.74 B			23
24	1.5	13.5	144 S	168		2.94 B				1.73 B			24
25	1.0	11.9	131 S	135		2.80 B				1.71 B			25
26	1.0	10.9	123 S	116		2.73 B				1.70 B			26
27	1.5	10.4	101 S	90.8		2.66 B				1.68 B			27
28	1.0	9.81	103 S	87.3		2.59 B				1.67 B			28
29	1.0	9.46	79 S	64.6		2.52 B				1.65 B			29
30	1.5	9.21	71 S	56.5		2.45 B				1.64 B			30
31	1.0	8.83	59 S	45.0						1.63 B			31
TOTAL		955.31		36 579.2		145.62				59.69			TOTAL
MEAN		30.8		1 180		4.85				1.93			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 1 610 ON SEP 03

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 18 800 ON SEP 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 54 56 N
LONG 130 03 15 W
DRAINAGE AREA 311 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS

* - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

BRITISH COLUMBIA

FORREST KERR CREEK ABOVE 460 M CONTOUR - STATION NO. 08CG006

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT		WATER TEMP.		CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
		(m^3/s)		(°C)				0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUN 04	08:03	33.5	M	2.0		204	K	64	66	78	81	86	90	93	96	98	100		BMW
JUN 08	08:23	37.3	M	3.5		195	K	62	69	75	81	87	91	95	97	99	100		BMW
JUN 09	08:33	40.5	M	3.5		224	K	51	60	70	79	86	90	93	95	97	100		BMW
JUN 11	06:53	41.7		7.5		231	M	54	60	71	78	83	86	90	94	98	100		BMW
JUN 12	11:05	53.1	M	5.5		269	K	60	67	77	83	86	91	97	99	100			BMW
JUN 13	11:50	56.8	M	4.5		365	K	57	65	73	78	82	86	90	94	98	100		BMW
JUN 14	11:00	58.8	M	4.5		407	K	55	64	72	78	81	84	88	92	97	100		BMW
JUN 18	12:00	64.3	M	6.0		452	K	52	61	72	79	84	88	93	98	100			BMW
JUN 21	10:48	77.8	M	5.0		471	K	50	63	77	85	89	91	94	97	99	100		BMW
JUN 25	08:50	85.6	M	4.0		456	K	58	65	76	83	87	91	94	99	100			BMW
JUN 26	09:09	98.0	M	4.5		587	K	46	52	62	72	78	82	86	94	97	99	100	BMW
JUN 27	08:24	109	M	3.5		611	K	42	49	58	67	73	79	85	90	94	98	100	BMW
JUN 28	08:55	114	M	3.5		593	K	34	46	57	69	75	80	86	91	94	96	100	BMW
JUN 29	08:55	113	M	2.5		553	K	51	55	66	77	81	85	89	94	98	100		BMW
JUN 30		106	M	2.5		459	K	47	58	70	80	87	91	93	96	99	100		BMW
JUL 03	10:58	108	M	3.5		419	K	51	63	77	86	89	93	96	98	99	100		BMW
JUL 05	09:35	99.0	M	3.0		381	K	54	63	77	88	91	94	96	98	99	100		BMW
JUL 06	10:15	97.6	M	3.5		348	K	56	59	77	88	91	93	96	98	99	100		BMW
JUL 09	08:45	84.6	M	1.0		269	K	54	63	76	88	92	94	97	100				BMW
JUL 09	09:00	76.6		1.0		261	R	42	54	73	85	89	92	95	98	99	99	100	BMW
JUL 13	08:45	82.3	M	3.0		179	K	52	62	75	85	89	94	98	99	100			BMW
JUL 16	09:13	105	M	3.5		361	K	37	53	56	70	80	87	92	97	99	100		BMW
JUL 20	08:28	92.7	M	3.0		305	K	42	51	65	76	81	85	89	92	95	97	100	BMW
JUL 23	13:43	118	M	4.0		476	K	27	36	48	60	70	78	85	92	98	100		BMW
JUL 28	09:54	138	M	3.5		479	K	28	37	47	59	70	80	87	90	94	100		BMW
JUL 30	08:58	156	M	2.5		629	K	23	29	39	52	64	76	86	98	98	100		BMW
JUL 31	10:35	169	M	2.0		792	K	18	26	36	47	59	69	79	87	92	98	100	BMW
AUG 01	10:53	120	M	2.5		751	K	28	37	47	57	67	74	79	84	89	93	100	BMW
AUG 02	10:08	101	M	2.5		533	K	31	41	51	60	66	69	73	80	86	97	100	BMW
AUG 04	10:02	73.9	M	2.5		422	K	36	47	57	65	71	73	76	81	84	87	100	BMW
AUG 07	09:10	64.1	M	2.5		190	K	40	50	61	66	70	76	81	88	94	100		BMW
AUG 09	10:23	97.6	M	3.0		403	K	29	35	43	52	58	64	73	81	85	91	100	BMW
AUG 11	13:30	83.6	M	3.5		338	K	30	47	61	71	76	77	83	91	96	99	100	BMW
AUG 16	09:20	91.8	M	3.0		312	K	50	56	68	77	82	85	89	93	96	99	100	BMW
AUG 25	10:03	110	M	3.0		438	K	31	37	45	56	63	70	77	84	89	94	100	BMW
AUG 27	09:41	115	M	2.5		495	K	38	44	51	62	72	82	90	95	97	99	100	BMW
AUG 28	10:44	107	M	3.0		527	H	44	53	63	74	82	88	92	95	97	100		BMW
AUG 29	10:30	93.2	M	3.5		335	K	52	58	67	80	89	95	98	99	100			BMW
AUG 30	10:48	78.4	M	2.5		240	K	38	48	69	80	87	87	93	97	99	100		BMW
SEP 02	12:18	125	M	3.0	1	070	K	37	46	60	72	81	87	92	96	98	99	100	BMW
SEP 03	13:08	135	M		1	800	K	30	43	69	78	84	88	92	95	97	99	100	BMW
SEP 04	10:44	118	M		1	550	K	24	51	61	73	80	87	92	96	98	99	100	BMW
SEP 05	10:38	89.6	M			921	K	35	45	58	70	80	86	92	96	98	100		BMW
SEP 06	13:17	102	M			537	K	36	44	52	64	73	79	85	89	93	100		BMW
SEP 08	08:59	75.0		1.0		584	R	43	52	64	76	84	90	95	97	99	100		BMW
SEP 08	10:58	71.2	M	3.0		567	K	46	58	72	81	88	91	94	99	100			BMW
SEP 09	10:01	60.8	M	3.0		293	K	63	69	76	82	88	93	96	99	100			BMW
SEP 10	11:15	53.5	M	3.0		250	K	50	59	72	84	89	91	95	99	100			BMW
SEP 18	11:23	72.6	M	3.5		299	K	48	55	62	69	76	83	87	90	91	91	100	BMW
SEP 21	10:02	67.5	M	2.5		332	K	38	48	60	71	80	85	93	97	99	[illegible]		BMW
OCT 10	10:38	54.3	M	2.5		600	K	33	43	53	64	74	83	91	96	99	[illegible]		BMW
OCT 14	10:13	75.3	M	2.0	1	100	K	50	59	76	86	90	93	96	97	98	99	100	BMW
OCT 16	10:26	52.9	M	1.0	1	030	K	23	39	89	93	95	98	100					BMW
OCT 17	11:27	47.2	M	1.0		658	K	60	70	86	92	96	96	98	99	100			BMW
OCT 20	11:11	23.0	M	0.1		327	K	69	82	96	98	98	99	100					BMW

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

BRITISH COLUMBIA

FORT NELSON RIVER ABOVE MUSKWA RIVER - STATION NO. 10CC002

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		8.00 B				6.09 B				4.85 B			1
2		7.95 B				6.00 B				4.97 B			2
3		7.60 B				6.01 B				5.13 B			3
4		7.70 B				6.10 B				5.19 B			4
5		7.75 B				6.40 B				5.20 B			5
6		7.68 B				6.75 B				5.40 B			6
7		7.65 B				6.70 B				5.60 B			7
8		7.85 B				6.33 B				5.55 B			8
9		8.05 B				6.34 B				5.60 B			9
10		8.00 B				6.39 B				5.75 B			10
11		8.00 B				6.30 B				5.90 B			11
12		8.35 B				6.09 B				5.65 B			12
13		8.42 B				5.50 B				5.25 B			13
14		8.10 B				5.15 B				5.24 B			14
15		7.40 B				4.91 B				5.33 B			15
16		7.20 B				4.90 B				5.10 B			16
17		7.10 B				5.00 B				5.00 B			17
18		6.90 B				5.42 B				5.10 B			18
19		6.50 B				5.67 B				5.33 B			19
20		6.25 B				5.79 B				5.69 B			20
21		6.40 B				5.60 B				6.00 B			21
22		6.27 B				5.30 B				6.17 B			22
23		6.27 B				5.20 B				6.18 B			23
24		6.50 B				5.00 B				6.05 B			24
25		6.75 B				4.75 B				5.80 B			25
26		6.65 B				4.80 B				5.70 B			26
27		6.35 B				5.00 B				5.72 B			27
28		6.06 B				5.13 B				5.77 B			28
29		6.06 B								5.76 B			29
30		5.95 B								5.64 B			30
31		6.00 B								5.55 B			31
TOTAL		221.71				158.62				171.16			TOTAL
MEAN		7.15				5.67				5.52			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		5.53 B				218 B	1 800 E	33 900					1
2		5.53 B				206 E	2 480 E	59 300	15.0	326	750	21 100	2
3		5.55 B				381 E	3 210 S	106 000		320	682 S	18 900	3
4		5.62 B				407 E	3 380	119 000		313	708	19 100	4
5		5.79 B				381 E	2 780 S	91 500	14.0	313	830	22 400	5
6		6.00 B				369 E	2 780	88 600		300	798 S	20 700	6
7		6.23 B				450 E	3 030 E	118 000	13.0	297	779	20 000	7
8		6.38 B				540 E	3 300	154 000		298	885 S	22 800	8
9		6.40 B				720 E	4 070	253 000	14.0	279	958 S	23 100	9
10		6.38 B				880 E	5 300 S	403 000		251	662 S	14 400	10
11		6.27 B			1	040 A	4 200 S	381 000		236	484	9 870	11
12		6.18 B			1	020 E	4 760 S	419 000	18.0	229	467 S	9 240	12
13		6.12 B				970 E	5 660	474 000		228	475	9 360	13
14		6.10 B				955 E	4 630 S	386 000		228	496	9 770	14
15		6.18 B			5.0	960 E	3 990	331 000	18.0	228	573 S	11 300	15
16		6.35 B				980 E	3 760	318 000		231	665	13 300	16
17		7.60 B			6.0	1 100 E	3 560 S	338 000	17.0	229	618 S	12 200	17
18		10.0 B			1	300 E	4 760	535 000		229	544	10 800	18
19		13.0 B			6.0	1 500 E	7 810 S	1 010 000	20.0	213	691 S	9 840	19
20		16.3 B			1	300 E	7 060	793 000		196 A	952	7 650	20
21		18.0 B			1	110 E	4 990	479 000		187 E	615	6 710	21
22		19.1 B				940 A	3 520 S	286 000	19.0	175 E	479	5 730	22
23		19.7 B			8.0	800 E	2 780	192 000		166 E	345 S	4 950	23
24		20.2 B				660 E	2 240	128 000		161 E	323	4 490	24
25		21.6 B			10.0	550 E	1 760 S	83 600		153 E	300	3 970	25
26		27.0 B				475 E	1 280	52 500		147 E	278	3 530	26
27		41.0 B				435 E	1 050	39 500	19.0	140 E	254 S	3 070	27
28		60.0 B				395 A	1 000 S	34 100		134 E	219	2 540	28
29		83.0 B				379	952	31 200		130 E	188 S	2 110	29
30		139 B				360	896	27 900		126 E	162	1 980	30
31					13.0	338	828 S	24 200	23.0	122 E	178 S	1 860	31
TOTAL		592.11				22 199		7 769 300		6 585		325 990	TOTAL
MEAN		19.7				716		251 000		220		10 900	MEAN

BRITISH COLUMBIA

FORT NELSON RIVER ABOVE MUSKWA RIVER - STATION NO. 10CC002

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		117 E	158	1 600		52.6	109	495		76.9	40	266	1
2	22.0	115 E	137 S	1 360		51.6	129	575		74.4	40	257	2
3		117 E	125	1 260		52.2	173	780		71.5	38	235	3
4		123 E	116	1 230		57.5	268	1 330		68.7	38	226	4
5		127 E	107	1 170		65.4	443	2 500		66.1	37	211	5
6		137 E	98	1 160		91.8	715	5 670		64.3	35	194	6
7		148 E	89	1 140		93.5	753	6 080		62.1	34	182	7
8		150 E	81	1 050		85.7	637	4 720		58.5	31	157	8
9		132 E	74	844	19.0	77.1	518 S	3 450		56.2	31	151	9
10		121 E	63	659		70.6	356	2 170		55.7	31	149	10
11		109 E	96	904		68.3	220	1 300		57.9	31	155	11
12	22.0	100 E	182 S	1 570		67.1	134	777		59.8 A	30	155	12
13		90.0 E	110	855	9.0	70.6	89 S	543	12.5	57.5 E	29 S	144	13
14		85.0 E	73	536		82.0	172	1 220		55.5 E	29	139	14
15		86.0 E	51	379		88.0	319	2 430		53.3 E	29	134	15
16		88.3 E	62	319		90.8	281	2 200		52.0 E	28	126	16
17		90.9 E	57	448		91.2	223	1 760		50.0 E	28	121	17
18		87.5 E	115	869		87.9	178	1 350		48.8 E	28	118	18
19		87.5 E	223	1 570		85.9	114	846		47.2 E	27	110	19
20	11.0	76.5 A	170 S	1 120		96.9	125	1 050		46.5 E	26	104	20
21		75.0	190	1 230		103	159	1 410		45.5 E	26	99.3	21
22		80.7	315	2 200		98.8	101	862		44.5 E	22	84.6	22
23		80.3	326	2 260		93.5	65	525		43.5 E	21	78.9	23
24	20.0	75.4	256 S	1 670		88.6	46	352		43.0 E	21	78.0	24
25		70.1	180	1 090		83.3	40	288		42.5 E	20	73.4	25
26		66.6	157	901		78.7	40	272		41.5 E	21	75.3	26
27		64.1	148	820		76.8	41	272		40.6 E	21	74.0	27
28		61.6	141	750		78.6	42	285		40.5 E	20	70.0	28
29		58.4	132	666		79.4	41	281		40.6 E	21	73.7	29
30		56.4	122	595		79.4	39	268	5.0	40.8 A	21 S	74.0	30
31		54.4	113	531		78.8	40	272					31
TOTAL		2 920.2		32 756		2 465.6		46 333		1 606.1		4 116.2	TOTAL
MEAN		94.3		1 060		79.5		1 490		53.5		137	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		40.8	20	70.5		20.9 B				10.0 B			1
2		41.9	20	72.4		20.0 B				13.7 B			2
3		40.8	19	67.0		20.2 B				13.7 B			3
4		40.0	19	65.7		20.9 B				13.6 B			4
5		39.7	19	65.2		20.5 B				13.3 B			5
6		39.5	18	61.6		18.0 B				12.8 B			6
7		39.3	17	57.7		16.3 B				12.5 B			7
8		38.0	17	55.8		15.6 B				12.7 B			8
9		37.3	16 S	51.6		15.7 B				12.9 B			9
10		36.5	16	50.5		15.8 B				12.7 B			10
11		36.1	15	46.8		15.7 B				12.7 B			11
12		35.6	15	46.1		15.7 B				12.8 B			12
13		35.2	15	45.6		16.2 B				12.7 B			13
14		34.3	15	44.5		16.5 B				12.3 B			14
15		33.5	14	40.5		16.6 B				12.1 B			15
16		32.4	14	39.2		16.2 B				12.1 B			16
17		30.6	13	34.6		14.8 B				12.3 B			17
18		29.2	13	32.8		14.0 B				12.3 B			18
19		28.0	12	29.0		13.3 B				12.2 B			19
20		26.3	11	25.0		12.6 B				11.6 B			20
21		25.1	11	23.9		12.3 B				11.5 B			21
22		25.0	10	21.6		12.3 B				11.3 B			22
23		24.2	10	20.9		12.4 B				10.8 B			23
24		23.1	10	20.0		12.6 B				10.8 B			24
25		22.8	10	19.7		13.0 B				11.2 B			25
26		22.8	10	19.7		13.2 B				11.3 B			26
27		22.1 B	10	19.1		13.5 B				11.0 B			27
28		21.4 B	10	18.5		13.8 B				11.5 B			28
29		21.5 B	9	16.7		14.0 B				12.1 B			29
30		22.0 B	9	17.1		14.1 B				12.8 B			30
31		21.8 B	9	17.0						13.2 B			31
TOTAL		964.8		1 215.9		466.8				382.8			TOTAL
MEAN		31.2		39.2		15.6				12.3			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 7 010 ON MAY 19

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 1 010 000 ON MAY 19

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 40 15 N
LONG 122 38 15 W
DRAINAGE AREA 32 800 km^2
NATURAL FLOW

FORT NELSON RIVER ABOVE MUSKWA RIVER - STATION NO. 10CC002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT		WATER TEMP.	CONCENTRATION OF SAMPLE(S)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
		(m^3/s)		(°C)	(mg/L)		0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 11	16:40	36 700		2.5	4 190	R	19	26	35	47	62	77	90	97	99	100		BMW
MAY 28	11:37	13 900			1 120	K	17	25	35	47	62	76	87	95	99	100		BMW
JUN 02	16:27	11 300	H	15.0	738	K	27	36	47	60	71	83	93	99	100			BMW
JUN 05	10:35	10 600	H	14.0	899	K	22	34	47	59	69	79	87	95	99	100		BMW
JUN 07	15:38	10 500	H	13.0	985	K	21	30	45	64	73	80	87	95	99	100		BMW
JUN 08	15:30	9 850	H		953	R	25	34	47	61	70	78	84	92	98	100		BMW
JUN 08	15:52	9 850	H		1 040	K	24	32	43	55	62	70	78	88	95	100		BMW
JUN 09	17:47	8 860	H	14.0	644	K	24	33	46	61	72	78	86	95	99	100		BMW
JUN 18	16:45	7 520	H	20.0	512	K	28	38	53	68	78	85	91	95	97	100		BMW
JUN 26	10:44	4 940		19.0	264	K	34	42	54	70	81	87	91	95	97	100		BMW
JUL 24	12:27	2 660	H	20.0	254	K	54	67	87	91	93	95	96	97	99	100		BMW
AUG 09	08:48	2 720	H	19.0	534	K	59	69	86	95	96	98	100					BMW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

BRITISH COLUMBIA

FRASER RIVER AT HANSARD - STATION NO. 08KA004

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		100 B	30	259		79.0 B	23	157		70.1 B	14	84.8	1
2		97.0 B	29	243		77.8 B	23	155		69.7 B	13	78.3	2
3		95.0 B	29	238		76.9 B	23	153		69.0 B	12	71.5	3
4		93.5 B	28	226		75.7 B	23	150		68.0 B	11	64.6	4
5		91.5 B	28	221		74.4 B	22	141		67.7 B	11	64.3	5
6		90.0 B	28	218		73.5 B	22	140		66.3 B	10	57.3	6
7		88.5 B	27	206		72.5 B	22	138		65.8 B	9	51.2	7
8		87.0 B	27	203		71.8 B	22	136		65.0 B	8	44.9	8
9		86.0 B	26	193		71.4 B	22	136		64.5 B	8	44.6	9
10		85.0 B	26	191		71.4 B	22	136		64.0 B	7	38.7	10
11		84.5 B	26	190		71.4 B	22	136		63.6 B	6	33.0	11
12		83.5 B	25	180	0.1	71.4 B	22 S	136		63.0 B	5	27.2	12
13		83.0 B	25	179		71.7 B	22	136		63.0 B	5	27.2	13
14		82.4 B	25	178		71.7 B	22	136		63.2 B	5	27.3	14
15		82.1 B	25	177		71.8 B	21	130		63.6 B	5	27.5	15
16		82.4 B	25	178		71.9 B	21	130		63.9 B	5	27.6	16
17		82.4 B	24	171		72.0 B	21	131		64.0 B	4	22.1	17
18		82.5 B	24	171		72.3 B	20	125		64.5 B	4	22.3	18
19		82.6 B	24	171		72.8 B	20	126		65.6 B	4	22.7	19
20		82.5 B	24	171		73.0 B	19	120		65.8 B	4	22.7	20
21		82.5 B	24	171		73.7 B	19	121		66.5 B	4	23.0	21
22		82.4 B	24	171		74.3 B	19	122		67.7 B	4	23.4	22
23		82.1 B	24	170		74.6 B	18	116		68.2 B	4	23.6	23
24		81.7 B	24	169		74.9 B	18	116		69.6 B	4	24.1	24
25		80.2 B	23	159		74.3 B	17	109	0.1	70.2 B	4 S	24.3	25
26		79.5 B	24	165		73.9 B	17	109		72.0 B	4	24.9	26
27		79.0 B	23	157		73.1 B	16	101		72.2 B	4	25.0	27
28		79.0 B	23	157		72.1 B	15	93.4		72.3 B	4	25.0	28
29		79.3 B	23	158						72.4 B	4	25.0	29
30		79.6 B	23	158						72.1 B	4	24.9	30
31		79.3 B	23	158						72.0 B	5	31.1	31
TOTAL		2 626.0		5 757		2 055.3		3 635.4		2 085.5		1 134.1	TOTAL
MEAN		84.7		186		73.4		130		67.3		36.6	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		69.5 B	5	30.0		220 B	110	2 090		1 350	258 S	30 100	1
2		69.2 B	5	29.9		248 B	136	2 910		1 590	397	54 500	2
3		69.0 B	5	29.8		282 B	170	4 140		1 740	551	82 800	3
4		68.5 B	5	29.6		315 B	219	5 960		1 830	660	104 000	4
5		68.0 B	5	29.4		345 B	284	8 470		1 860	599	96 300	5
6		67.8 B	6	35.1		378 B	366 S	12 000		1 770	405 S	61 900	6
7		67.6 B	6	35.0		425 B	345 S	12 700		1 550	258	34 600	7
8	0.1	67.7 B	6 S	35.1		460 E	207 S	8 230	6.5	1 280	168 S	18 600	8
9		68.0 B	6	35.3		500 E	163	7 040		1 140	142 S	14 000	9
10		68.2 B	6	35.4		540 E	150	7 000		1 160	169	16 900	10
11		69.1 B	6	35.8		573 A	149 S	7 380		1 310	199	22 500	11
12		69.9 B	6	36.2		580 E	154	7 720		1 550	249 S	33 300	12
13		70.3 B	7	42.5		610 E	160	8 430		1 780	350 S	53 800	13
14		72.1 B	7	43.6	2.0	630 A	167 S	9 090		1 990	478 S	82 200	14
15		73.9 B	7	44.7		657	175 S	9 930		2 110	575 S	105 000	15
16		76.0 B	7	46.0		776	262 S	17 600		2 110	421	76 700	16
17		78.0 B	7	47.2		893	492 S	38 000		2 030	271	47 500	17
18		81.8 B	7	49.5	1	070	702	64 900		1 950	223	37 600	18
19		85.0 B	8	58.8	1	260	757 S	82 400		1 960	210	35 600	19
20		89.8 B	8	62.1	1	210	601 S	62 800		2 020	214 S	37 300	20
21	0.1	95.6 B	8 S	66.1		1 090	455	42 900		2 100	283 S	51 300	21
22		102 B	10	88.1		1 130	321	31 300		2 170	419 S	78 600	22
23		109 B	16	151		1 270	511	56 100		2 150	304 S	56 500	23
24		117 B	23	233		1 290	518 S	57 700		2 030	205 S	36 000	24
25		125 B	32	346		1 210	388	40 600		1 880	165 S	26 800	25
26		138 B	39	465		1 370	583	69 000		1 760	156 S	23 700	26
27		149 B	48	618		1 330	519 S	59 600		1 640	164 S	23 200	27
28		164 B	60	850		1 160	396 S	39 700		1 600	181 S	25 000	28
29		180 B	73	1 140		1 050	269 S	24 400		1 580	204	27 800	29
30		200 B	89	1 540		1 030	198 S	17 600		1 510	229 S	29 900	30
31						1 130	185 S	18 100					31
TOTAL		2 829.0		6 288.2		25 032		835 790		52 500		1 424 000	TOTAL
MEAN		94.3		210		807		27 000		1 750		47 500	MEAN

FRASER RIVER AT HANSARD - STATION NO. 08KA004

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1 480	250	32 000		1 040 E	271 S	24 400		495	107 S	4 580	1
2		1 490	245 S	31 500		1 270 E	375 S	41 100		510	97	4 270	2
3		1 490	221 S	28 500		1 490 E	477	61 400		531	87	3 990	3
4		1 490	246	31 700		1 530 E	510 S	67 400		546	78	3 680	4
5		1 690	356	52 000		1 400 A	389 S	47 100		602	147	7 650	5
6		1 820	397	62 400		1 210	244 S	25 500		754	338 E	22 000	6
7		1 700	278	40 800		1 050	168 S	15 200		771	247 E	16 500	7
8		1 530	210	27 800		949	118 S	9 680		786	371 E	25 200	8
9		1 350	176	20 500		888	78 S	5 980	1	440	851 E	106 000	9
10		1 190	153	15 700		896	97 S	7 510	1	880	907 E	147 000	10
11		1 100	137	13 000		967	171 S	14 300		1 720	482 E	71 600	11
12	6.5	1 030	126 S	11 200		1 050	251 S	22 800		1 380	288 E	34 300	12
13		981	124	10 500		977	199 S	16 800		1 140	191	18 800	13
14		977	122	10 300		843	112	8 160		948	148	12 100	14
15		1 110	147 S	14 100		735	93 S	5 910		797	130	8 950	15
16		1 610	391 S	54 400		752	154	10 000		694	122	7 320	16
17		1 620	370	51 800		893	280 S	21 600		619	121	6 470	17
18		1 420	256 S	31 400		927	272	21 800		569	118	5 800	18
19		1 370	240	28 400		816	196	13 800		535	118	5 450	19
20		1 430	272 S	33 600		707	159	9 710		514	115	5 110	20
21		1 450	325 S	40 700		645	140	7 800		497	110	4 720	21
22		1 560	418 S	56 300		620	131	7 020		480	108	4 480	22
23		1 600	429 S	59 300		607	126	6 610		459	106	4 200	23
24		1 420	311 S	38 200		583	123	6 200		447	100	3 860	24
25		1 220	219 S	23 100		552	119	5 680		437	96 S	3 620	25
26		1 080	193 S	18 000		542	117	5 480		427	84	3 100	26
27		1 010	186 S	16 200		563	114	5 550		414	81	2 900	27
28		971	182	15 300		577	112	5 580		472	115	4 690	28
29		955 A	176 S	14 500		569	111	5 460		566	144	7 040	29
30		930 E	171 S	13 700		532	110	5 060		516	100	4 460	30
31		958 E	189	15 600		505	109	4 760					31
TOTAL		41 032		912 500		26 685		515 350		21 946		559 840	TOTAL
MEAN		1 320		29 400		861		16 600		732		18 700	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		441				285				113 B			1
2		396				286				112 B			2
3		375				272				110 B			3
4		366				253				110 B			4
5		355				246				109 B			5
6		341				245				108 B			6
7		354				241				106 B			7
8		370				233				104 B			8
9		361				223				103 B			9
10		335				212				103 B			10
11		323				182 B				101 B			11
12		323				176 B				99.0 B			12
13		324				171 B				99.0 B			13
14		314				165 B				98.0 B			14
15		306				162 B				96.0 B			15
16		318				159 B				95.7 B			16
17		354				158 B				95.6 B			17
18		375				150 B				94.0 B			18
19		357				149 B				93.0 B			19
20		324				144 B				92.4 B			20
21		300				138 B				91.6 B			21
22		286				134 B				91.0 B			22
23		284				131 B				91.0 B			23
24		291				128 B				90.0 B			24
25		299				123 B				89.6 B			25
26		296				121 B				89.2 B			26
27		306				119 B				86.9 B			27
28		319				118 B				86.0 B			28
29		324				116 B				85.0 B			29
30		309				114 B				84.1 B			30
31		286								83.5 B			31
TOTAL		10 312				5 354				3 009.6			TOTAL
MEAN		333				178				97.1			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 907 ON SEP 10

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 147 000 ON SEP 10

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 04 43 N
LONG 121 50 52 W
DRAINAGE AREA 18 000 km^2
NATURAL FLOW

BRITISH COLUMBIA

FRASER RIVER AT HANSARD - STATION NO. 08KA004

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	VERTICAL (m)	DEPTH OF SAMPLE (m)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002 0.004 0.008 0.016 0.031 0.062 0.125 0.250 0.500 1.000 2.000	METHOD OF ANALYSIS
MAY 14	14:50	677	2.0	30.5	0.15	123	DATA NOT AVAILABLE	
					0.82	123	DATA NOT AVAILABLE	
					1.64	135	DATA NOT AVAILABLE	
					2.47	139	DATA NOT AVAILABLE	
					3.32	152	DATA NOT AVAILABLE	
					3.96	152	DATA NOT AVAILABLE	
					4.11		STREAMBED	
				65.5	0.15	137	DATA NOT AVAILABLE	
					0.79	137	DATA NOT AVAILABLE	
					1.59	148	DATA NOT AVAILABLE	
					2.41	161	DATA NOT AVAILABLE	
					3.17	167	DATA NOT AVAILABLE	
					3.84	186	DATA NOT AVAILABLE	
					3.99		STREAMBED	
				112.8	0.15	165	DATA NOT AVAILABLE	
					0.79	165	DATA NOT AVAILABLE	
					1.59	168	DATA NOT AVAILABLE	
					2.35	196	DATA NOT AVAILABLE	
					3.17	228	DATA NOT AVAILABLE	
					3.78	262	DATA NOT AVAILABLE	
					3.93		STREAMBED	
				140.2	0.15	149	DATA NOT AVAILABLE	
					0.58	154	DATA NOT AVAILABLE	
					1.16	168	DATA NOT AVAILABLE	
					1.77	183	DATA NOT AVAILABLE	
					2.32	185	DATA NOT AVAILABLE	
					2.77	217	DATA NOT AVAILABLE	
					2.93		STREAMBED	
				213.4	0.15	135	DATA NOT AVAILABLE	
					0.58	138	DATA NOT AVAILABLE	
					1.16	142	DATA NOT AVAILABLE	
					1.77	148	DATA NOT AVAILABLE	
					2.32	156	DATA NOT AVAILABLE	
					2.77	168	DATA NOT AVAILABLE	
					2.93		STREAMBED	

FRASER RIVER AT HANSARD - STATION NO. 08KA004

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	VERTICAL (m)	DEPTH OF SAMPLE (m)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002 0.004 0.008 0.016 0.031 0.062 0.125 0.250 0.500 1.000 2.000	METHOD OF ANALYSIS
JUN 08	14:17	1 190	6.5	30.5	0.15	87	DATA NOT AVAILABLE	
					1.13	94	DATA NOT AVAILABLE	
					2.26	102	DATA NOT AVAILABLE	
					3.38	105	DATA NOT AVAILABLE	
					4.51	103	DATA NOT AVAILABLE	
					5.89	150	DATA NOT AVAILABLE	
					5.64		STREAMBED	
				65.5	0.15	116	DATA NOT AVAILABLE	
					1.10	116	DATA NOT AVAILABLE	
					2.16	120	DATA NOT AVAILABLE	
					3.26	119	DATA NOT AVAILABLE	
					4.36	147	DATA NOT AVAILABLE	
					5.30	215	DATA NOT AVAILABLE	
					5.46		STREAMBED	
				112.8	0.15	155	DATA NOT AVAILABLE	
					1.16	197	DATA NOT AVAILABLE	
					2.32	172	DATA NOT AVAILABLE	
					3.47	221	DATA NOT AVAILABLE	
					4.63	310	DATA NOT AVAILABLE	
					5.73	310	DATA NOT AVAILABLE	
					5.88		STREAMBED	
				140.2	0.15	161	DATA NOT AVAILABLE	
					0.85	223	DATA NOT AVAILABLE	
					1.71	237	DATA NOT AVAILABLE	
					2.56	245	DATA NOT AVAILABLE	
					3.41	336	DATA NOT AVAILABLE	
					4.11	357	DATA NOT AVAILABLE	
					4.27		STREAMBED	
				213.4	0.15	154	DATA NOT AVAILABLE	
					1.19		DATA NOT AVAILABLE	
					2.37	121	DATA NOT AVAILABLE	
					3.57	128	DATA NOT AVAILABLE	
					4.75	148	DATA NOT AVAILABLE	
					5.79	161	DATA NOT AVAILABLE	
					5.94		STREAMBED	

BRITISH COLUMBIA

FRASER RIVER AT HANSARD - STATION NO. 08KA004

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	VERTICAL (m)	DEPTH OF SAMPLE (m)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	METHOD OF ANALYSIS
JUL 12	13:43	986	6.5	30.5	0.15	73	DATA NOT AVAILABLE											
					1.04	72	DATA NOT AVAILABLE											
					2.07	78	DATA NOT AVAILABLE											
					3.10	81	DATA NOT AVAILABLE											
					4.21	86	DATA NOT AVAILABLE											
					5.09	97	DATA NOT AVAILABLE											
					5.24		STREAMBED											
				65.5	0.15	99	DATA NOT AVAILABLE											
					0.98	119	DATA NOT AVAILABLE											
					1.95	117	DATA NOT AVAILABLE											
					2.90	114	DATA NOT AVAILABLE											
					3.84	143	DATA NOT AVAILABLE											
					4.66	153	DATA NOT AVAILABLE											
					4.82		STREAMBED											
				112.8	0.15	124	DATA NOT AVAILABLE											
					0.94	141	DATA NOT AVAILABLE											
					1.89	154	DATA NOT AVAILABLE											
					2.87	161	DATA NOT AVAILABLE											
					3.84	198	DATA NOT AVAILABLE											
					4.63	340	DATA NOT AVAILABLE											
					4.79		STREAMBED											
				160.2	0.15	138	DATA NOT AVAILABLE											
					0.73	141	DATA NOT AVAILABLE											
					1.46	156	DATA NOT AVAILABLE											
					2.23	169	DATA NOT AVAILABLE											
					2.96	234	DATA NOT AVAILABLE											
					3.54	278	DATA NOT AVAILABLE											
					3.69		STREAMBED											
				213.4	0.15	90	DATA NOT AVAILABLE											
					1.10	107	DATA NOT AVAILABLE											
					2.19	103	DATA NOT AVAILABLE											
					3.32	111	DATA NOT AVAILABLE											
					4.42	112	DATA NOT AVAILABLE											
					5.36	137	DATA NOT AVAILABLE											
					5.52		STREAMBED											

FRASER RIVER AT MISSION - STATION NO. 08NH024

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		1 250	9	972		1 310	6	679		1 400	14	1 690	1
2		1 160	10	1 000		1 310	7	792	4.0	1 450	13 S	1 630	2
3		1 090	12	1 130	2.5	1 300	9 S	1 010		1 450	13	1 630	3
4		1 150	13	1 290		1 270	8	878		1 430	11	1 360	4
5		1 010	15	1 310		1 230	8 S	850	4.5	1 360	10 S	1 180	5
6		968	16	1 340		1 210	7	732		1 330	9	1 030	6
7		858	18	1 330	2.0	1 180	8 S	816		1 300	9	1 010	7
8		980	20	1 690		1 160	7	702		1 270	9	988	8
9		988	23	1 960		1 120	6	581	4.5	1 260	9 S	980	9
10		988	25	2 130		1 100	5	475		1 260	9	980	10
11		1 060	29	2 660		1 090	5	471		1 270	9	988	11
12		1 100	33	3 140		1 080	4 S	373	4.5	1 260	13 S	1 420	12
13		1 120	37	3 580		1 060	9	824		1 270	14	1 540	13
14		1 140	41	4 040		1 130	21	2 050		1 260	14	1 520	14
15	3.0	1 190	45 S	4 630		1 300	37	4 160		1 250	16	1 730	15
16		1 160	40	4 010	3.0	1 460	55 S	6 940		1 240	15	1 610	16
17		1 160	28	2 810		1 600	57	7 880		1 220	16	1 690	17
18	1.5	1 190	14 S	1 440		1 650	39	5 560		1 190	16	1 650	18
19		1 160	8	802		1 640	23 S	3 260	6.0	1 190	15	1 540	19
20		1 120	11	1 060		1 700	19	2 790		1 150	15	1 490	20
21		1 100	18	1 710		1 860	18	2 890		1 130	15	1 460	21
22		1 100 E	25	2 380		1 810	18	2 810		1 120	15	1 450	22
23		1 160 E	34	3 410	3.0	1 730	18 S	2 690		1 100	16	1 520	23
24		1 300 E	42	4 720		1 620	19	2 660		1 100	16	1 520	24
25	2.0	1 420 E	50 S	6 130		1 550	19	2 540		1 080	16	1 490	25
26		1 290 E	49	5 460		1 500	20 S	2 590	5.5	1 090	16	1 510	26
27		1 300	37	4 160		1 470	18	2 290		1 120	16	1 550	27
28		1 280	24	2 650		1 420	18	2 210		1 100	15	1 430	28
29	3.0	1 250	11 S	1 190						1 120	16	1 550	29
30		1 250	7	756						1 150	16	1 590	30
31		1 320	6	684						1 160	15	1 500	31
TOTAL		35 612		75 574		38 860		62 503		38 080		44 226	TOTAL
MEAN		1 150		2 440		1 390		2 230		1 230		1 430	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1 150	14	1 390		2 670	304	70 100		7 760	354	237 000	1
2	6.0	1 130	15	1 460	6.0	2 880	441 S	110 000	11.3	7 790	315 S	212 000	2
3		1 100	15	1 430	6.0	3 040	434 S	114 000	11.0	7 960	278 S	188 000	3
4		1 090	15	1 410	7.0	3 230	365 S	102 000		8 270	285	204 000	4
5		1 070	15	1 390		3 350	364	105 000		8 610	317	236 000	5
6		1 060	16	1 470	6.5	3 410	299 S	88 100	11.3	8 810	353 S	269 000	6
7		1 060	15	1 370	7.0	3 570	277 S	85 400	11.3	8 890	355 S	273 000	7
8	6.0	1 050	15 S	1 360		3 720	303	97 400	11.0	8 890	381 S	293 000	8
9	6.5	1 030	17 S	1 510	8.0	3 940	346 S	118 000	11.0	8 750	357 S	270 000	9
10		1 030	18	1 600		4 230	397	145 000	11.8	8 550	336 S	248 000	10
11		1 010	21	1 830	7.5	4 470 E	437 S	169 000	12.0	8 380	303 S	219 000	11
12		1 070	24	2 220	7.5	4 640 E	447 S	179 000	12.0	8 380	283 S	205 000	12
13		1 160	29	2 910	7.7	4 870 E	395 S	166 000	12.5	8 640	315 S	235 000	13
14		1 260	33	3 590	9.0	5 100 E	441 S	194 000	12.5	8 950	288 S	223 000	14
15		1 260	36	3 920		5 320 E	513	236 000	12.5	9 230	294 S	234 000	15
16	6.5	1 200	41 S	4 250	9.5	5 520 E	476 S	227 000	12.5	9 710	419 S	352 000	16
17		1 210	43	4 500	9.2	5 660	386 S	189 000	13.5	10 200	326 S	287 000	17
18		1 190	41	4 220	8.5	5 950 E	415 S	213 000	13.5	10 600	484 S	443 000	18
19		1 170	38	3 840	10.0	6 120 E	447 S	236 000	13.5	10 800	411 S	384 000	19
20		1 160	34	3 410	9.7	6 310	569 S	310 000	14.3	11 000	448 S	426 000	20
21		1 170	32	3 230	10.0	6 940	709 S	425 000	13.8	11 100	471 S	452 000	21
22	7.5	1 200	30 S	3 110	9.5	7 360	648 S	412 000	14.0	11 100	373 S	358 000	22
23	8.0	1 300	23 S	2 580	9.0	7 390	480 S	306 000	14.3	10 900	365 S	344 000	23
24		1 420	27	3 310	10.0	7 220	381 S	238 000	14.6	10 900	376 S	354 000	24
25		1 490	44	5 660	10.0	7 530	468 S	304 000	14.5	11 000	387 S	368 000	25
26		1 590	70	9 620	8.9	7 990	489 S	338 000	14.5	10 800	332 S	310 000	26
27		1 720	102	15 200	9.3	7 930	477 S	327 000	14.3	10 600	215 S	197 000	27
28		1 910	138	22 800	8.5	7 900	387 S	264 000	15.0	10 200	276 S	243 000	28
29		2 140	176	32 500	9.0	8 010	311 S	215 000	15.3	9 770	243 S	205 000	29
30	9.0	2 400	219 S	45 400	10.3	7 930	344 S	236 000		9 570	411	340 000	30
31					11.0	7 790	303 S	204 000					31
TOTAL		38 800		192 490		171 990		6 423 000		286 110		8 609 000	TOTAL
MEAN		1 290		6 420		5 550		207 000		9 540		287 000	MEAN

BRITISH COLUMBIA

FRASER RIVER AT MISSION - STATION NO. 08MH024

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		9 400	434	352 000	16.5	5 750	127 S	63 100		3 900	93	31 300	1
2		9 150	399	315 000	16.0	5 720	123 S	60 800	16.0	3 810	92 S	30 300	2
3		9 090	331	260 000	16.5	5 800	141 S	70 700		3 740	92	29 700	3
4	13.5	9 200	256 S	203 000	16.0	5 920	122 S	62 400		3 750	92	29 800	4
5	13.5	9 090	214 S	168 000		6 090	104	54 700		3 870	94	31 400	5
6	14.0	8 920	246 S	190 000		6 310	104	56 700		4 000	95	32 800	6
7	15.0	8 920	204 S	157 000		6 430	104	57 800		4 060	95	33 300	7
8	15.0	9 000	173 S	135 000		6 170	103	54 900		4 150	94	33 700	8
9	14.0	8 950	248 S	192 000		5 750	102	50 700		4 280	95	35 100	9
10	14.5	8 580	191 S	142 000		5 660 E	101 S	49 400	14.5	4 470	96 S	37 100	10
11	14.5	8 180	209 S	148 000	16.0	5 610 E	101 S	49 000		3 920	169	71 800	11
12	16.0	7 760	197 S	132 000	16.0	5 610 E	132 S	64 000		5 920	384	196 000	12
13	15.5	7 330	326 S	206 000		5 660 E	172	84 100	13.5	6 260 A	597 S	323 000	13
14	14.5	7 020	285 S	173 000		5 720 E	180	89 000	12.5	6 370 E	494 S	272 000	14
15	15.0	6 850	223 S	132 000		5 660 E	169	82 600	13.5	5 940	325 S	167 000	15
16	14.3	6 740	233 S	136 000	15.5	5 580 E	150 S	72 300	13.0	5 490	226 S	107 000	16
17	14.8	6 740	352 S	205 000	16.0	5 380 E	103 S	47 900	14.0	8 960	81 S	38 700	17
18		7 160	644	398 000	16.0	5 240 E	92 S	41 700		4 530	69	27 000	18
19	15.5	7 820	633 S	428 000	17.0	5 320 E	109 S	50 100	14.0	4 210	78 S	28 400	19
20	14.5	8 040	794 S	552 000		5 610	104	50 400	14.5	3 960	88 S	30 100	20
21	15.0	7 700	485 S	323 000	16.5	5 890 E	134 S	68 200		3 760	83	27 000	21
22	15.0	7 360	323 S	205 000	16.5	5 220	148 S	66 700	15.0	3 620	72 S	22 500	22
23	14.5	7 250	281 S	176 000	17.0	4 860	101 S	42 400	15.0	3 490	61 S	18 400	23
24		7 280	286	180 000	17.0	4 580	93 S	36 800		3 390	52	15 200	24
25	16.0	7 530	376 S	245 000	16.5	4 430	79 S	30 200		3 300	46	13 100	25
26	15.5	7 530	325 S	211 000	16.0	4 350	69 S	25 900	14.0	3 230	39 S	10 900	26
27	16.0	7 160	237 S	147 000	16.5	4 230	86 S	31 400	14.0	3 150	41 S	11 200	27
28	16.5	6 680	169 S	97 500	16.5	4 120	67 S	23 800	13.5	3 110	60 S	16 100	28
29	16.0	6 310	106 S	57 800	16.0	4 030	79 S	27 500		3 090	88	23 500	29
30	16.5	6 030	101 S	52 600	15.0	3 960	97 S	33 200		3 020	105	27 400	30
31		5 860	110	55 700		3 940	95 S	32 300					31
TOTAL		240 630		6 374 600		164 600		1 630 700		125 750		1 766 800	TOTAL
MEAN		7 760		206 000		5 310		52 600		4 190		58 900	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		3 030	103	27 000		3 210	34	9 430		1 500	3	389	1
2		3 100	89	23 800		3 090	29	7 740		1 510	4	522	2
3		3 130	68	18 400		2 910	24	6 030	7.0	1 720	4 S	594	3
4		3 000	42	10 900		2 850	19	4 680		2 310	4	798	4
5		2 850	23	5 660	7.0	2 790	14 S	3 370	3.0	2 110	5 S	912	5
6		2 750	12	2 850		2 710	9	2 110		1 930	9	1 500	6
7		2 760	9	2 150	5.5	2 550	4 S	895		1 800	15	2 330	7
8		2 740	10	2 370		2 520	4	871		1 680	20 S	2 900	8
9	9.0	2 690	10 S	2 320		2 490	4	861		1 600	16	2 210	9
10		2 730	13	3 070		2 390	2	813	3.0	1 530	12 S	1 590	10
11		2 820	16	3 900		2 320	2	801		1 490	9	1 160	11
12		2 770	20	4 790	4.0	2 220	3 S	575	3.5	1 430	6 S	741	12
13		2 660	25	5 750	5.5	2 130	3 S	552		1 450	6	752	13
14		2 560	30	6 640		2 050	3	531		1 450	7	877	14
15		2 540	34	7 460		1 950	3	505		1 460	11	1 390	15
16	9.5	2 500	38 S	8 210		1 850	3	480		1 520	14	1 840	16
17		2 530	39	8 530		1 860	4	643		1 640	17 S	2 410	17
18		2 520	38	8 270		1 840	4	636		1 640	22	3 120	18
19		2 490	39	8 390		1 840	4	795		1 640	26	3 680	19
20		2 490	39	8 390	5.0	1 840	5 S	626	3.5	1 560	30 S	4 040	20
21	9.0	2 500	39 S	8 420		1 810	4	608		1 520	30	3 940	21
22		2 640	39	8 900	4.0	1 760	4 S	577		1 560	27	3 640	22
23		3 000	38	9 850		1 670	4	391		1 560	23	3 100	23
24		3 080	39	10 400		1 510	3	473		1 480	18	2 300	24
25	7.5	3 110	40 S	10 700		1 370	4	332		1 370	14	1 660	25
26		3 180	40	11 000		1 280	3	314		1 310	9	1 020	26
27		3 390	41	12 000		1 210	3	311	3.0	1 290	6 S	669	27
28		3 430	41	12 200		1 200	3	324		1 250	6	648	28
29		3 360	41	11 900	3.5	1 250	3 S	358		1 230	6	638	29
30	7.0	3 270	41 S	11 600		1 380	3	251		1 210	6	627	30
31		3 200	37	10 200		1 450	2			1 170	5	505	31
TOTAL		88 820		286 020		61 500		46 083		47 920		52 502	TOTAL
MEAN		2 870		9 230		2 050		1 540		1 550		1 690	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	221	
MAXIMUM DAILY	794	ON JUL 20
MINIMUM DAILY	2	ON NOV 10

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	70 000	
MAXIMUM DAILY	552 000	ON JUL 20
MINIMUM DAILY	251	ON NOV 30

TOTAL SUSPENDED SEDIMENT LOAD 25 563 498 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 07 39 N
LONG 122 18 08 W
DRAINAGE AREA 228 000 km^2
REGULATED FLOW SINCE 1952

A - MANUAL GAUGE

E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

FRASER RIVER AT MISSION - STATION NO. 08MH024

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 02	18:32	2 880	H	6.0	496	K	11	22	41	65	81	91	99	100				BNW
MAY 03	14:21	3 210		6.0	420	R	21	31	46	68	86	97	99	100				BNW
MAY 03	15:18	3 210		6.0	432	K	20	29	44	64	85	95	98	100				BNW
MAY 03	18:35	3 040	H	6.0	400	K	21	30	45	65	82	94	98	100				BNW
MAY 09	20:22	3 940	H	8.0	393	K	14	21	32	48	67	84	96	100				BNW
MAY 16	18:41	5 520		9.5	544	K	13	19	30	44	58	73	85	94	99	100		BNW
MAY 17	08:55	5 830		9.2	451	K	11	16	24	34	46	60	76	91	100			BNW
MAY 17	10:52	5 830		9.2	380	R	9	15	26	40	56	75	92	98	100			BNW
MAY 18	18:35	5 950		8.5	539	K	7	13	23	34	48	63	83	97	100			BNW
MAY 19	03:45	6 120		10.0	541	K	8	14	23	33	45	59	74	89	97	100		BNW
MAY 20	12:32	6 730		9.7	556	R	9	15	25	38	54	72	88	96	100			BNW
MAY 20	19:30	6 310	H	10.0	537	K	6	10	17	27	41	58	81	97	100			BNW
MAY 21	19:10	6 940	H	10.0	930	K	7	13	21	33	47	63	77	90	98	100		BNW
MAY 24	10:00	7 220	H	9.5	448	K	10	16	25	36	47	59	73	86	96	100		BNW
MAY 27	07:50	7 930	H	9.5	683	K	6	11	16	23	31	41	56	75	91	100		BNW
JUN 02	18:30	7 790	H	11.0	418	K	8	12	19	28	38	51	65	79	90	100		BNW
JUN 03	20:30	7 960	H	12.0	347	K	7	9	15	24	32	39	52	68	84	100		BNW
JUN 06	09:30	8 810	H	11.0	511	K	7	10	17	25	33	45	58	71	87	100		BNW
JUN 08	10:43	9 620		11.0	377	R	7	13	22	33	46	60	74	85	97	100		BNW
JUN 08	21:40	8 890	H	12.0	538	K	4	8	14	21	29	39	56	72	85	100		BNW
JUN 15	07:30	9 230	H	12.5	371	K	5	6	8	14	20	28	41	58	87	100		BNW
JUN 16	21:00	9 710	H	12.5	481	K	4	7	11	17	25	35	50	64	86	100		BNW
JUN 19	10:27	11 500		13.0	407	R	5	9	18	26	39	51	69	85	95	100		BNW
JUN 19	10:30	10 800	H	13.0	581	K	3	6	13	19	26	35	51	75	96	100		BNW
JUN 19	11:50	11 500		13.0	556	K	5	9	13	19	26	37	51	67	85	100		BNW
JUN 21	09:00	11 100	H	13.5	499	K	4	5	12	19	24	31	42	63	89	100		BNW
JUN 28	08:00	10 200	H	15.0	415	K	7	11	17	22	27	32	41	74	96	100		BNW
JUL 20	12:11	8 520		14.5	844	R	20	28	39	48	55	61	68	76	84	100		BNW
JUL 20	13:00	8 520		14.5	607	K	23	33	47	59	67	75	83	95	99	100		BNW
JUL 21	21:45	7 700	H	15.0	277	K	18	26	37	46	56	66	80	91	98	100		BNW
JUL 28	12:00	6 680	H	16.5	207	K	13	20	28	37	46	55	66	77	87	100		BNW
JUL 29	10:10	6 310	H	16.0	175	K	18	25	35	43	51	63	76	89	97	100		BNW
SEP 13	11:00	6 270		13.5	618	R	12	20	32	47	62	77	89	97	99	100		BNW
SEP 13	11:35	6 270		13.5	645	K	7	15	26	40	55	71	90	98	100			BNW
SEP 14	09:00	6 370	H	12.5	550	K	16	25	36	48	59	71	87	96	99	100		BNW
SEP 15	18:00	5 940	H	13.5	305	K	17	27	39	55	67	79	93	99	100			BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

FRASER RIVER AT MISSION - STATION NO. 08MH024

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m³/s)	WATER TEMP. (°C)	VERTICAL (m)	DEPTH OF SAMPLE (m)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	METHOD OF ANALYSIS
MAY 20	12:40	6 730	9.7	91.4	0.15	364	30	38	48	61	79	90	95	97	99	100		BNW
					2.35	480	23	29	40	54	74	91	99	100				BNW
					4.66	521	8	13	22	35	53	75	93	99	100			BNW
					7.01	574	18	21	27	37	52	72	91	99	100			BNW
					9.33	854	10	15	22	31	42	56	78	96	100			BNW
					10.52	1 010	9	12	18	25	34	47	65	87	98	100		BNW
					11.67	1 490	9	11	14	19	26	35	51	77	96	100		BNW
					11.83		STREAMBED											
				182.9	0.15	439	13	20	33	51	71	88	97	100				BNW
					4.94	622	11	16	24	35	49	67	89	98	100			BNW
					5.52	497	12	19	28	44	63	85	98	100				BNW
					7.44	665	6	11	18	29	43	63	86	98	100			BNW
					9.91	861	6	9	14	22	33	50	71	94	100			BNW
					11.13	1 650	4	5	8	12	18	25	37	61	92	100		BNW
					12.13	1 180	1	1	1	2	3	5	10	54	94	100		BNW
					12.37		STREAMBED											
				274.3	0.15	430	8	14	25	42	62	83	97	100				BNW
					2.26	523	23	27	30	42	59	78	93	99	100			BNW
					4.51	703	11	17	25	37	52	72	88	96	99	100		BNW
					6.74	664	15	21	29	39	53	71	90	98	100			BNW
					8.99	764	11	15	22	32	45	60	75	86	95	100		BNW
					10.12	934	7	11	17	25	35	48	62	75	90	100		BNW
					10.88	1 160	2	6	12	18	25	35	49	72	90	100		BNW
					11.00		STREAMBED											
				365.8	0.15	466	13	21	33	47	65	83	96	100				BNW
					2.35	492	12	19	28	41	58	79	95	100				BNW
					4.69	474	10	13	21	38	57	79	94	99	100			BNW
					7.07	493	9	16	26	38	53	75	91	98	100			BNW
					9.45	605	7	11	20	31	46	65	84	96	100			BNW
					10.61	712	6	9	19	29	40	57	76	90	98	100		BNW
					11.55	962	8	10	15	23	32	44	58	76	100			BNW
					11.64		STREAMBED											
				457.2	0.15	351	13	21	35	56	82	93	97	99	100			BNW
					2.26	405	18	25	42	55	72	93	100					BNW
					4.51	455	18	28	43	56	72	88	98	100				BNW
					6.77	464	18	19	31	47	66	86	99	100				BNW
					9.02	480	8	15	26	41	61	86	98	100				BNW
					10.15	483	10	13	22	35	53	74	95	100				BNW
					11.13	535	11	18	29	41	55	74	88	97	100			BNW
					11.28		STREAMBED											

FRASER RIVER AT MISSION - STATION NO. 08MH024

BED LOAD PARTICLE-SIZE ANALYSIS FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASURE-MENT (m³/s)	NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000	METHOD OF ANALYSIS	TYPE OF SAMPLER
MAY 17	11:54	5 830	4	1	6	48	95	100									S	ARNHEM
MAY 20	14:13	6 730	4		4	46	96	100									S	ARNHEM
JUN 03	15:08	7 550	5		1	26	88	94	95	96	98	100					S	ARNHEM
JUN 08	14:50	9 620	5		2	21	94	100									S	ARNHEM
JUN 19	13:45	11 500	5		2	21	92	100									S	ARNHEM
JUL 05	15:13	9 310	4		1	38	100										S	ARNHEM
AUG 03	11:28	6 490	4		2	21	88	98	99	99	100						S	ARNHEM

FRASER RIVER AT MISSION - STATION NO. 08MH024

BED MATERIAL PARTICLE-SIZE ANALYSIS FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASURE-MENT (m³/s)	NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000	METHOD OF ANALYSIS	TYPE OF SAMPLER
JUN 03	15:56	7 550	5				1	20	82	88	90	92	95	100			S	BM-54

BRITISH COLUMBIA

FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		900 B	6	467		1 070	4	370		1 020	4	353	1
2		850 B	6	441	2.0	1 060	4 S	366		1 030	5	445	2
3		815 B	6	422		1 060	3	275		1 020	5	481	3
4		790 B	7	478		1 040	3	270		998	7	604	4
5		770 B	7	466	1.0	1 020	4 S	353	3.0	982	9 S	764	5
6		780 B	7	472		1 010	4	389		966	9	751	6
7		800 B	7	484		993	3	257		965	10	834	7
8		820 B	7	496		975	3	253		963	9	749	8
9		840 B	7	508		956	3	248		971	10	839	9
10		860 B	7	520		949	2	164		999	9	777	10
11		900 B	7	544		943	3	244		1 000	8	691	11
12		950	7	575	1.0	936	3 S	283		1 000	9	778	12
13		980	8	677		972	4	336		1 010	9	785	13
14		1 040	7	629		1 100	9	855		994	9	773	14
15	2.0	1 050	8 S	726		1 120	15	1 450		981	11	932	15
16		1 020	7	617		1 200	20	2 070	2.7	975	12 S	1 010	16
17		1 050	7	635		1 280	25	2 760		965	9	750	17
18		1 000	7	605		1 200	32	3 320	5.0	957	9 S	744	18
19		979	6	508	3.0	1 170	38 S	3 840		951	10	822	19
20		959	5	414		1 260	37	4 030		942	9	732	20
21		959	5	414		1 320	33	3 760		942	9	732	21
22		967	5	418		1 190	28	2 880		938	10	810	22
23		1 000	5	432		1 130	23	2 250		938	10	810	23
24		1 240	7	750		1 090	17	1 600		937	10	810	24
25		1 070	4	370		1 060	11	1 010		936	11	890	25
26		1 060	4	366	2.5	1 040	5 S	449	5.0	963	12 S	998	26
27		1 070	4	370		1 020	4	353		977	13	1 100	27
28		1 050	3	272		996	4	344		966	12	1 000	28
29	2.5	1 040	3 S	270						970	11	922	29
30		1 070	3	277						964	11	916	30
31		1 100	3	285						961	11	913	31
TOTAL		29 779		14 908		30 160		34 699		30 181		24 875	TOTAL
MEAN		961		481		1 080		1 240		974		790	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		950	12	985		2 420	440	92 000	11.0	7 180	256 S	159 000	1
2	5.0	957	12 S	992		2 560	480	106 000	11.0	7 330	282 S	179 000	2
3		942	10	818		2 750	504	120 000	11.1	7 660	329 S	218 000	3
4		930	11	884	5.7	2 930	513 S	130 000	10.8	8 130	385 S	270 000	4
5		925	11	879	7.0	2 970	449 S	115 000	10.8	8 590	449 S	333 000	5
6		916	10	791		3 090	389	104 000	11.0	8 790	484 S	368 000	6
7		929	11	883	7.0	3 240	399 S	112 000	11.5	8 870	499 S	382 000	7
8	4.0	896	11 S	852	7.0	3 330	436 S	125 000	11.5	8 790	420 S	319 000	8
9		938	12	973	7.8	3 650	522 S	165 000		8 460	360 S	263 000	9
10		919	12	953	7.8	3 860	595 S	198 000	11.5	7 940	282 S	193 000	10
11		936	14	1 130	7.9	4 150	575 S	206 000	13.9	7 620	243 S	160 000	11
12		977	16	1 350	7.8	4 390	522 S	198 000	13.3	7 640	280 S	185 000	12
13		1 010	19	1 660	8.8	4 650	542 S	218 000	13.0	7 990	297 S	205 000	13
14		1 060	24	2 200	8.8	4 930	634 S	270 000	13.4	8 420	299 S	218 000	14
15		988	32	2 730	9.5	5 140	584 S	259 000	14.0	8 860	334 S	256 000	15
16		994	40	3 440	9.9	5 300	464 S	212 000	13.8	9 330	359 S	289 000	16
17		985	47	4 000	8.9	5 600	449 S	217 000	15.8	9 760	397 S	335 000	17
18		962	56	4 650	8.6	5 910	488 S	249 000	13.0	10 000	438 S	378 000	18
19	4.7	963	62 S	5 160	9.6	6 230	493 S	265 000	14.2	10 100	410 S	358 000	19
20		971	62	5 200	9.5	6 910	750 S	448 000	14.3	9 980	337 S	291 000	20
21		1 010	62	5 410	9.8	7 470	847 S	547 000	14.1	9 920	314 S	269 000	21
22		1 070	65	6 010	9.4	7 650	669 S	442 000	14.8	9 910	282 S	241 000	22
23	7.0	1 180	73 S	7 440	9.5	7 340	494 S	313 000	14.6	9 900	291 S	249 000	23
24		1 240	83	8 890	10.5	7 220	429 S	268 000	15.5	9 930	305 S	262 000	24
25		1 310	109	12 300	9.9	7 780	472 S	317 000	14.0	9 980	300 S	259 000	25
26		1 420	150	18 400	9.3	7 960	466 S	320 000	14.8	9 690	288 S	241 000	26
27		1 550	203	27 200	9.1	7 610	412 S	271 000	14.6	9 370	274 S	222 000	27
28		1 700	258	37 900	9.5	7 700	379 S	252 000	14.6	8 970	272 S	211 000	28
29		1 870	319	51 500	10.4	7 680	337 S	224 000	15.5	8 580	241 S	179 000	29
30	6.0	2 120	383 S	70 200	11.5	7 460	326 S	210 000	15.0	8 420	216 S	157 000	30
31					12.0	7 270	286 S	180 000					31
TOTAL		33 618		285 776		167 150		7 153 000		266 110		7 649 000	TOTAL
MEAN		1 120		9 530		5 390		231 000		8 870		255 000	MEAN

BRITISH COLUMBIA

FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	14.0	8 280	218 S	156 000		5 520	144	68 700		3 320	79	22 700	1
2	14.3	8 030	203 S	141 000		5 510	154	73 300	16.5	3 270	80 S	22 600	2
3	13.6	8 060	207 S	144 000		5 650	165	80 500		3 220	82	22 800	3
4	13.4	8 170	200 S	141 000		5 820	181	91 000		3 280	86	24 400	4
5	13.8	8 030	215 S	149 000		6 060	206	108 000		3 410	92	27 100	5
6	14.4	8 070	217 S	151 000	16.5	6 330	236 S	129 000		3 450	98	29 200	6
7	14.0	8 280	230 S	165 000	16.5	6 310	232 S	126 000	17.0	3 510	103 S	31 200	7
8		8 490	226	166 000	17.0	5 960	198 S	102 000		3 580	110	34 000	8
9	14.1	8 360	212 S	153 000	17.0	5 600	159 S	76 900		3 740	137	44 300	9
10	14.3	7 910	204 S	139 000		5 280	133	60 700		3 880	165	48 600	10
11		7 450	200	129 000	17.0	5 080	122 S	53 500		4 440	237	90 900	11
12	16.5	7 030	193 S	117 000		5 020	120	52 000		5 630	400	195 000	12
13		6 610	188	105 000	16.0	5 140	119 S	52 800		6 180	492	263 000	13
14		6 360	175	96 200		5 230	119	53 800	13.0	5 750	448 S	223 000	14
15		6 280	166	90 100		5 170	119	53 200	13.0	5 120	319 S	141 000	15
16		6 210	160 S	85 800	16.5	5 000	119 S	51 400		4 570	201	79 400	16
17		6 540	159	89 800		4 780	121	50 000	13.0	4 160	152 S	54 600	17
18		7 170	190	118 000	17.0	4 590	125 S	49 600		3 840	124	41 100	18
19	15.0	7 810	319	215 000		4 690	133	53 900		3 580	104	32 200	19
20	14.5	7 690	505 S	336 000	17.0	4 960	144 S	61 700	14.0	3 400	90 S	26 400	20
21	14.8	7 210	210 S	131 000		4 710	146	59 400		3 270	80	22 600	21
22	14.3	6 970	176 S	106 000		4 390	138	52 300		3 150	76	20 700	22
23	14.0	6 980	198 S	119 000	18.0	4 120	126 S	44 900		3 050	71	18 700	23
24	14.0	7 190	237 S	147 000		3 920	116	39 300	14.0	2 980	67 S	17 300	24
25	14.8	7 500	278 S	180 000	18.5	3 840	108 S	35 800		2 910	66	16 600	25
26	15.5	7 310	279 S	176 000		3 740	98	31 700		2 830	67	16 400	26
27		6 810	246 S	145 000	16.5	3 630	86	27 000		2 770	69	16 500	27
28		6 330	212	116 000		3 540	80	24 500	13.0	2 790	70 S	16 900	28
29		5 960	183	94 200		3 490	78	23 500		2 740	69	16 300	29
30		5 730	156	77 200	16.0	3 420	80 S	23 600		2 700	64	14 900	30
31		5 600	143	69 200		3 380	80	23 400					31
TOTAL		224 420		4 247 500		149 880		1 833 400		110 520		1 630 400	TOTAL
MEAN		7 240		137 000		4 830		59 100		3 680		54 300	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	11.5	2 760	59 S	14 100		2 390	31	6 400		1 350	21	2 450	1
2		2 860	57	14 100		2 270	31	6 080		1 410	25	3 050	2
3		2 840	58	14 200		2 190	32	6 050	5.0	1 890	33 S	5 390	3
4		2 690	57	13 200		2 240	32	6 190		2 100	39	7 080	4
5	12.0	2 590	57 S	12 800	6.0	2 160	31 S	5 790		1 650	38	5 420	5
6		2 540	54	11 900		2 080	28	5 030		1 530	35	4 630	6
7		2 550	45	9 910		1 990	27	4 640		1 410	30	3 650	7
8	10.0	2 510	40 S	8 670		2 000	24	4 150		1 330	28	3 220	8
9		2 470	40	8 540		1 980	22	3 760		1 280	23	2 540	9
10		2 590	44	9 850		1 930	21	3 500	2.0	1 240	20 S	2 140	10
11		2 620	47	10 600		1 870	20	3 230		1 220	20	2 110	11
12	12.5	2 510	52 S	11 300	3.0	1 840	18 S	2 860		1 210	19	1 990	12
13		2 420	47	9 830		1 790	18	2 780		1 220	20	2 110	13
14	13.0	2 360	40 S	8 160		1 730	17	2 540		1 250	19	2 050	14
15		2 350	36	7 310		1 650	17	2 420		1 260	19	2 070	15
16		2 320	36	7 220		1 600	16	2 210		1 350	20	2 330	16
17		2 320	36	7 220		1 600	16	2 210	3.0	1 360	20 S	2 350	17
18		2 290	37	7 320		1 580	16	1 910		1 310	20	2 260	18
19		2 280	39	7 680	4.0	1 590	16 S	1 920		1 280	19	2 100	19
20		2 320	41	8 220		1 540	16	1 860		1 170	19	1 920	20
21		2 340	42	8 490		1 480	16	1 790		1 220	19	2 000	21
22	9.0	2 450	44 S	9 310		1 390	16	1 920		1 210	18	1 880	22
23		2 650	42	9 620		1 230	17	1 810		1 190	18	1 850	23
24		2 450	39	8 260		1 150	17	1 690		1 120	18	1 760	24
25		2 420	35	7 320		1 070	16	1 480		1 040	17	1 530	25
26	9.0	2 380	31 S	6 370		1 050	17	1 540		1 020	17	1 580	26
27		2 470	31	6 620		1 080	17	1 590		1 010	17	1 680	27
28	8.5	2 390	33 S	6 810		1 120	18	1 740		984	16	1 360	28
29		2 300	34	6 760		1 270	20	2 190		1 030	16	1 420	29
30		2 300	33	6 560	3.0	1 290	20 S	2 230		990	16	1 370	30
31		2 340	31	6 270						945	15	1 220	31
TOTAL		76 680		284 520		50 150		93 510		39 589		78 230	TOTAL
MEAN		2 470		9 180		1 670		3 120		1 280		2 520	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	223	
MAXIMUM DAILY	847	ON MAY 21
MINIMUM DAILY	2	ON FEB 10

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	63 980	
MAXIMUM DAILY	547 000	ON MAY 21
MINIMUM DAILY	164	ON FEB 10

TOTAL SUSPENDED SEDIMENT LOAD 23 329 418 t

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 16 N
LONG 121 46 35 W
DRAINAGE AREA 218 000 km^2
REGULATED FLOW SINCE 1952

FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 30	08:35	2 120 M	6.0	373 K	17	26	41	61	74	81	86	94	99	100		[illegible]
MAY 04	11:38	2 970	5.7	520 R	15	18	34	54	72	85	93	97	99	100		[illegible]
MAY 04	12:53	2 970	5.7	515 K	12	19	32	51	70	85	95	99	100			[illegible]
MAY 05	14:18	2 970 M	7.0	438 K	15	20	34	52	71	82	88	96	99	100		[illegible]
MAY 08	07:00	3 330 M	6.5	444 K	15	21	33	50	67	80	87	94	99	100		[illegible]
MAY 09	15:30	3 650 M	8.5	544 K	15	19	33	48	63	77	87	93	99	100		[illegible]
MAY 10	16:30	3 860 M	8.5	601 K	13	21	34	48	63	77	89	96	99	100		[illegible]
MAY 11	16:30	4 150 M	8.8	540 K	12	20	32	47	63	76	87	96	99	100		[illegible]
MAY 12	17:45	4 390 M	8.5	493 K	10	13	29	46	63	77	87	95	99	100		[illegible]
MAY 13	07:10	4 650 M	8.0	575 K	9	16	26	40	55	72	85	93	98	100		[illegible]
MAY 13	11:54	4 650	8.5	521 R	10	17	28	43	59	75	87	95	99	100		[illegible]
MAY 13	12:40	4 650	8.5	522 K	8	14	24	39	55	73	87	97	100			[illegible]
MAY 18	17:40	5 910 M	9.0	492 K	12	17	26	36	49	65	82	94	99	100		[illegible]
MAY 21	12:37	7 470	9.8	829 R	9	14	23	36	51	68	85	95	99	100		[illegible]
MAY 21	17:10	7 470 M	10.5	829 K	9	13	21	34	50	67	81	92	97	100		[illegible]
MAY 25	08:10	7 780 M	9.5	469 K	9	14	22	33	46	61	79	92	98	100		[illegible]
MAY 28	07:40	7 700 M	8.0	384 K	9	13	24	34	43	56	73	86	95	100		[illegible]
JUN 02	08:15	7 330 M	10.5	288 K	7	14	23	33	42	52	67	87	98	100		[illegible]
JUN 02	17:10	7 330 M	11.5	255 K	10	14	23	33	45	58	72	85	94	100		[illegible]
JUN 05	08:30	8 590 M	10.8	421 K	11	14	21	30	37	50	72	91	99	100		[illegible]
JUN 06	08:21	8 790 M	10.5	420 K	7	12	20	29	40	64	73	88	97	100		[illegible]
JUN 08	08:27	8 790 M	11.0	440 K	7	12	20	29	40	53	75	92	99	100		[illegible]
JUN 08	11:50	8 720	11.5	421 R	7	13	21	31	41	54	71	87	95	100		[illegible]
JUN 08	14:15	8 720	11.5	342 K	9	16	26	37	49	65	89	91	98	100		[illegible]
JUN 11	07:48	7 620 M	12.8	241 K	6	14	23	33	44	55	73	87	97	100		[illegible]
JUN 14	07:30	8 420 M	12.8	284 K	6	12	20	28	37	47	64	88	98	100		[illegible]
JUN 16	08:35	9 330 M	13.5	406 K	7	13	17	25	35	48	62	75	87	100		[illegible]
JUN 17	08:17	9 760 M	15.0	220 K	9	18	31	48	63	77	89	97	100			[illegible]
JUN 19	11:33	10 200	13.5	419 R	12	17	25	35	44	54	72	90	99	100		[illegible]
JUN 19	13:08	10 200	13.5	412 K	8	15	24	35	45	56	75	90	98	100		[illegible]
JUN 19	18:44	10 100 M	14.2	330 K	5	12	20	31	41	53	73	91	99	100		[illegible]
JUN 19	18:49	10 100 M	14.2	365 K	8	14	22	32	42	57	76	92	99	100		[illegible]
JUN 25	09:54	9 980 M	14.0	297 K	9	17	29	41	50	63	83	95	99	100		[illegible]
JUL 06	11:43	8 020	14.4	211 R	19	26	38	51	62	73	84	92	98	100		[illegible]
JUL 06	12:25	8 020	14.4	221 K	11	19	28	38	51	64	76	91	98	100		[illegible]
JUL 06	18:41	8 070 M	14.4	231 K	14	19	31	42	52	65	81	94	99	100		[illegible]
JUL 10	08:44	7 910 M	14.3	230 K	15	22	31	41	52	64	77	89	97	100		[illegible]
JUL 19	16:04	7 810 M	15.0	439 K	12	19	28	39	51	66	83	95	99	100		[illegible]
JUL 20	11:46	7 690 M	14.5	729 K	21	31	45	60	70	79	88	97	100			[illegible]
JUL 22	11:40	6 970 M	14.3	206 K	13	18	27	39	51	65	83	95	99	100		[illegible]
JUL 25	11:21	7 500 M	14.8	317 K	9	15	26	40	55	70	83	93	98	100		[illegible]
JUL 26	09:15	7 310 M	15.5	318 K	10	16	28	42	57	72	89	98	100			[illegible]
AUG 06	08:05	6 330 M	16.5	245 K	16	22	29	38	48	61	79	93	99	100		[illegible]
AUG 09	12:07	5 600 M	17.0	154 K	23	28	35	49	61	72	84	94	99	100		[illegible]
AUG 20	06:34	4 960 M	17.0	150 K	9	15	23	35	46	62	81	94	99	100		[illegible]
SEP 14	10:28	5 750 M	13.0	486 K	11	19	32	47	60	74	88	97	100			[illegible]
SEP 15	11:39	5 100	13.0	320 R	13	21	32	46	57	67	78	85	90	100		[illegible]
SEP 15	12:22	5 100	13.0	339 K	15	24	36	50	64	77	87	94	98	100		[illegible]
SEP 17	07:32	4 160 M	13.0	171 K	5	14	27	41	53	68	84	97	100			[illegible]

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	VERTICAL (m)	DEPTH OF SAMPLE (m)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	METHOD OF ANALYSIS
MAY 21	12:17	7 470	9.8	91.4	0.15	744	10	16	25	38	53	73	93	99	100			BMW
					1.37	809	11	14	23	37	53	73	94	100				BMW
					2.74	868	12	14	25	38	53	71	91	99	100			BMW
					4.15	890	7	16	24	36	51	71	90	98	100			BMW
					5.52	890	10	16	25	37	51	70	92	100				BMW
					6.19	940	9	15	23	34	45	63	86	98	100			BMW
					6.74	1 070	11	17	25	34	46	60	82	97	100			BMW
					6.89		STREAMBED											
				182.9	0.15	719	12	19	30	46	62	79	96	100				BMW
					1.28	799	12	19	29	42	57	77	93	99	100			BMW
					2.56	786	15	22	31	43	56	73	91	99	100			BMW
					3.81	890	13	19	28	41	55	71	89	98	100			BMW
					5.09	875	9	17	27	40	55	71	89	98	100			BMW
					5.73	989	10	11	20	31	45	64	86	98	100			BMW
					6.22	1 060	5	11	20	31	41	57	81	97	100			BMW
					6.37		STREAMBED											
				274.3	0.15	739	12	19	30	45	61	80	94	99	100			BMW
					1.52	826	12	19	29	40	54	71	90	98	100			BMW
					2.74	960	11	17	25	36	49	66	84	96	100			BMW
					4.02	957	10	14	22	34	48	64	82	95	100			BMW
					4.88	1 200	9	13	20	29	40	52	73	91	99	100		BMW
					5.03		STREAMBED											
				365.8	0.15	719	5	11	21	36	54	76	92	98	99	100		BMW
					1.22	848	11	17	25	36	51	67	81	92	98	100		BMW
					2.47	991	8	12	19	29	41	56	72	87	97	100		BMW
					3.29	1 140	11	16	20	29	40	55	70	85	96	100		BMW
					3.96	1 990	6	7	12	18	25	33	43	59	93	99	100	BMW
					4.11		STREAMBED											
				457.2	0.15	633	17	24	37	54	73	91	99	100				BMW
					1.52	669	19	23	35	51	69	89	98	100				BMW
					3.05	678	16	25	38	54	70	87	98	100				BMW
					4.57	705	13	19	27	43	62	80	92	98	100			BMW
					6.10	834	11	17	26	38	52	67	82	93	98	100		BMW
					6.86	1 040	9	14	21	31	44	56	67	79	90	100		BMW
					7.47	2 280	3	4	7	12	17	23	28	36	94	100		BMW
					7.62		STREAMBED											

FRASER RIVER NEAR AGASSIZ - STATION NO. 08MF035

BED LOAD PARTICLE-SIZE ANALYSIS FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASURE-MENT (m^3/s)	NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES 0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000	METHOD OF ANALYSIS	TYPE OF SAMPLER
MAY 13	13:28	4 650	6			1	12	53	61	62	63	65	71	89	100		S	VUV
JUN 08	15:47	8 720	5			1	5	25	33	35	36	41	50	70	100		S	VUV
JUN 19	14:35	10 200	5				4	15	20	22	24	29	37	62	100		S	VUV
JUL 06	13:43	8 020	5			1	5	39	53	56	56	59	68	89	97	100	S	VUV
AUG 09	12:50	5 600 H	5			1	4	40	54	59	61	65	78	97	100		S	VUV

H - DAILY MEAN DISCHARGE

BRITISH COLUMBIA

FRASER RIVER NEAR MARGUERITE - STATION NO. 08MC018

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		368 B	16	509		309 B	2	53.4		320 B	8	221	1
2		360 B	15	467		309 B	2	53.4		320 B	8	221	2
3		351 B	14	425		309 B	3	80.1		320 B	8	221	3
4		331 B	13	372		309 B	2	53.4		320 B	8	221	4
5		320 B	13	359		309 B	2	53.4		320 B	8	221	5
6		320 B	12	332		309 B	3	80.1		314 B	8	217	6
7		320 B	11	304		309 B	3	80.1		314 B	9	244	7
8		320 B	11	304		309 B	3	80.1		314 B	9	244	8
9		311 B	11	296		309 B	3	80.1		314 B	9	244	9
10		311 B	11	296		309 B	3	80.1		314 B	10	271	10
11		311 B	10	269		320 B	3	82.9		309 B	10	267	11
12		303 B	10	262		320 B	3	82.9		309 B	10	267	12
13		300 B	9	233		320 B	3	82.9		309 B	10	267	13
14		300 B	9	233		320 B	3	82.9		309 B	11	294	14
15		300 B	8	207		320 B	4	111		309 B	12	320	15
16		309 B	7 S	187		326 B	5	138		309 B	13	347	16
17		309 B	6	160		320 B	6	166		309 B	15	400	17
18		309 B	5	133		320 B	7	194		309 B	17	454	18
19		309 B	4	107		320 B	7	194		309 B	19	507	19
20		309 B	3	80.1		320 B	7	194		309 B	22	587	20
21		309 B	2	53.4		320 B	7	194		306 B	25	661	21
22		309 B	2 S	53.4		320 B	8	221		306 B	29	767	22
23		309 B	2	53.4		320 B	8	221		306 B	33	872	23
24		309 B	2	53.4		320 B	8	221		306 B	36	952	24
25		309 B	2	53.4		320 B	8	221		306 B	41	1 080	25
26		300 B	2	51.8		320 B	8	221		306 B	45	1 190	26
27		300 B	2	51.8		320 B	8	221		306 B	48	1 270	27
28		300 B	2	51.8		320 B	8	221		306 B	52	1 370	28
29		300 B	2	51.8						306 B	55	1 450	29
30		300 B	2	51.8						306 B	58	1 530	30
31		300 B	2	51.8						306 B	61 S	1 610	31
TOTAL		9 716		6 112.9		8 850		3 763.8		9 626		18 787	TOTAL
MEAN		313		197		316		134		311		606	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		309 B	69	1 710		1 680	521	75 600	11.5	3 680	252 S	80 100	1
2		309 B	68	1 820		1 740	499	75 000	12.0	3 960	305 S	104 000	2
3		309 B	70	1 870	3.5	1 870	586 S	94 700	11.5	4 250	442 S	162 000	3
4		320 B	74	2 050	3.5	1 910	503 S	83 000		4 500	591	230 000	4
5		320 B	77	2 130	4.0	1 950	483 S	81 400		4 700	523	212 000	5
6		320 B	81 S	2 240		2 130	543	99 900	11.0	4 690	446 S	181 000	6
7		314 B	89	2 410	4.5	2 250	741 S	144 000	10.5	4 360	408 S	154 000	7
8		314 B	99	2 690	5.0	2 500	756 S	163 000	10.5	4 220	253 S	92 200	8
9		314 B	109	2 960	5.5	2 560	622 S	138 000		3 780	144	47 000	9
10		314 B	120	3 260	6.0	2 660	623 S	143 000		3 500	129	39 000	10
11		314 B	132	3 580		2 790	615	148 000		3 470	133	39 900	11
12		314 B	144	3 910		2 990	590	152 000		3 600	155	48 200	12
13		314 B	157	4 260	6.5	3 160	636 S	174 000		3 850	209	69 500	13
14		314 B	171	4 640	6.5	3 160	512 S	140 000	12.5	4 180	316 S	114 000	14
15		314 B	189	5 130	7.0	3 160	493 S	135 000	12.0	4 400	441 S	168 000	15
16		320 B	216 S	5 970	7.0	3 260	435 S	123 000		4 580	507	201 000	16
17		320 B	259	7 160		3 470	430	129 000		4 580	484	192 000	17
18		326 B	321	9 040		3 770	692	225 000	12.0	4 490	393 S	152 000	18
19		331 B	407	11 600	7.5	4 380	1 060 S	401 000	12.5	4 360	339 S	128 000	19
20		351 B	518	15 700	8.0	4 580	989 S	391 000	13.0	4 330	324 S	121 000	20
21		399 B	630	21 700	8.0	4 320	612 S	228 000	13.5	4 360	345 S	130 000	21
22	3.0	555	738 S	35 400	8.0	4 110	582 S	207 000		4 440	394	151 000	22
23		566	817 S	40 000		4 080	384	135 000		4 510	412	161 000	23
24		651	772 S	43 400		4 210	363	132 000	14.0	4 470	384 S	148 000	24
25		762	774	51 000	8.0	4 210	436 S	159 000	14.0	4 330	338 S	126 000	25
26		821	877	62 200	7.5	4 110	345 S	123 000	13.5	4 110	285 S	101 000	26
27		946	1 090	89 100	7.5	4 150	391 S	140 000	14.0	3 920	250 S	84 700	27
28	4.0	1 100	1 400 S	133 000	7.5	4 110	374 S	133 000		3 740	260	88 000	28
29		1 440	1 320 S	164 000		3 880	261	87 500		3 650	235	74 100	29
30		1 530	787 S	104 000		3 620	180	56 300	14.5	3 620	231 S	72 200	30
31					11.5	3 540	211 S	64 500					31
TOTAL		15 131		837 930		100 310		4 580 900		124 630		3 666 980	TOTAL
MEAN		504		27 900		3 240		148 000		4 150		122 000	MEAN

BRITISH COLUMBIA

FRASER RIVER NEAR MARGUERITE - STATION NO. 08NC018

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	14.5	3 540	207 S	63 300		2 570	113 S	25 100		1 430	58	7 170	1
2	14.0	3 440	160 S	47 600		2 600	152 S	34 100		1 410	59	7 190	2
3	14.0	3 420	185 S	54 700		2 730	223	52 600		1 450	72	9 020	3
4		3 470	208	62 400		3 070	332	88 100		1 560	93 S	12 500	4
5		3 570	219	67 600		3 400	409 S	120 000		1 580	112	15 300	5
6	14.5	3 700	254 S	81 200		3 510 E	302	91 600		1 580	121	16 500	6
7		3 960	351 S	120 000		3 400 E	198	58 200		1 650	137 S	19 500	7
8		3 890	273 S	91 800		3 000 E	129	33 400		1 780	272	41 800	8
9		3 640	194 S	61 000		2 630	98 S	22 300		1 860	509	81 800	9
10		3 400	177	52 000		2 480	94	20 100		2 790	909 S	219 000	10
11		3 100	148	39 600		2 480	105	22 500		3 860	1 280 S	427 000	11
12		2 900	135 S	33 800		2 570	127 S	28 200		4 000	875 S	302 000	12
13		2 770	134 S	32 100		2 630	143 S	32 500		3 510	516 S	156 000	13
14		2 700	167 S	39 000		2 600	118 S	26 500		3 000	320	82 900	14
15		2 730	191 S	45 100		2 450	88	18 600		2 550	184	40 500	15
16		2 970	232	59 500		2 280	86	16 800		2 200	116 S	22 000	16
17		3 700	360	115 000		2 140	109 S	20 200		1 970	92	15 700	17
18		4 220	385	140 000		2 510	192 S	41 600		1 790	80	12 400	18
19		3 740	238	77 700		2 800	276 S	66 800		1 650	69 S	9 840	19
20		3 370	191	55 600		2 510	180 S	39 000		1 540	60	7 980	20
21		3 300	179	51 000		2 200	152	28 900		1 480	56	7 160	21
22		3 400	204	59 900		1 970	141	24 000		1 410	51 S	6 210	22
23		3 740	300	96 900		1 860	132	21 200	13.5	1 420	48	5 890	23
24		4 030	416	145 000		1 860	108	17 400		1 310	47	5 320	24
25		3 810	300	98 800		1 670	85	12 300		1 280	45 S	4 980	25
26		3 470	229	68 700		1 560	72	9 700		1 270	43	4 720	26
27		3 170	189 S	51 800		1 560	65	8 760		1 230	43	4 570	27
28		2 900	144	36 100		1 540	62	8 250		1 230	46	4 890	28
29		2 800	108	26 100		1 520	61	8 010		1 230	52	5 530	29
30		2 700	107 S	25 000		1 520	62	8 140		1 340	67 S	7 760	30
31		2 600	113 S	25 400		1 480	63 S	8 060					31
TOTAL		104 190		2 023 700		73 080		1 012 920		56 360		1 563 130	TOTAL
MEAN		3 360		65 300		2 360		32 700		1 880		52 100	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1 380	72	8 580		974	37	3 110		615	40	2 130	1
2		1 290	65	7 280		938	38	3 080		590	41	2 090	2
3		1 180	59	6 020		956	40	3 300		615	41	2 180	3
4		1 130	54	5 270		920	38 S	3 020		615	36	1 910	4
5		1 080	45 S	4 200		865	33	2 470		578	24	1 200	5
6		1 070	42	3 880		837	31	2 240		517	12 S	536	6
7		1 050	47	4 260		819	29	2 050		501 B	8	346	7
8		1 100	59	5 610		810	24	1 680		481 B	6	249	8
9		1 270	70	7 680		791	21	1 440		470 B	6	244	9
10		1 230	63	6 700		755	19 S	1 240		453 B	7	274	10
11		1 160	49	4 910		718	18	1 120		453 B	9	352	11
12		1 080	42	3 920		688	17	1 010		453 B	10 S	391	12
13		1 090	38 S	3 580		676	17	993		453 B	11	431	13
14		1 090	37	3 490		651	19	1 070		453 B	13	509	14
15		1 050	36	3 270		639	23 S	1 270		453 B	15	587	15
16		1 030	35	3 110		615	26	1 380		439 B	14	531	16
17		1 030	34	3 030		609	28	1 470		439 B	14 S	531	17
18		1 040	36 S	3 230		590	30	1 530		425 B	15	551	18
19		1 080	38	3 550		566	31	1 520		425 B	15	551	19
20		1 080	36	3 360		541	30	1 400		425 B	14	514	20
21		1 030	31	2 760		505	28	1 220		419 B	12	434	21
22		974	30	2 520		468	26	1 050		419 B	10	362	22
23		938	31	2 510		448	25 S	968		411 B	8 S	284	23
24		929	33	2 650		439 E	24	910		411 B	7	249	24
25		929	35 S	2 810		439 E	24	910		411 B	7	249	25
26		929	36	2 890		439 E	25	948		399 B	6	207	26
27		920	41	3 260		453 E	27	1 060		399 B	6	207	27
28		920	50	3 970		467 E	30	1 210		391 B	7	236	28
29		1 040	59	5 300		492	34 S	1 450		391 B	8	270	29
30		1 050	50 S	4 540		554	38	1 820		391 B	10 S	338	30
31		1 030	41	3 650						391 B	10	338	31
TOTAL		33 199		131 740		19 662		47 939		14 286		19 281	TOTAL
MEAN		1 070		4 250		655		1 600		461		622	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	283	
MAXIMUM DAILY	1 400	ON APR 28
MINIMUM DAILY	2	ON JAN 21

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	38 100	
MAXIMUM DAILY	427 000	ON SEP 11
MINIMUM DAILY	51.8	ON JAN 26

TOTAL SUSPENDED SEDIMENT LOAD 13 913 103.7 t

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 31 48 N
LONG 122 26 32 W

DRAINAGE AREA 110 000 km^2
REGULATED FLOW SINCE 1952

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

FRASER RIVER NEAR MARGUERITE - STATION NO. 08HC018

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)		CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
								0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 04	10:39	1	990		3.5		488 R	14	21	34	49	63	76	88	97	100			BNV
MAY 05	05:22	1	950	H	4.0		499 K	11	15	26	44	62	78	90	97	99	100		BNV
MAY 08	18:40	2	500	H	5.0		674 K	10	18	29	45	62	78	93	99	100			BNV
MAY 10	18:28	2	660	H	6.0		622 K	7	15	26	41	59	75	89	97	100			BNV
MAY 15	05:15	3	160	H	7.0		521 K	7	14	24	34	46	58	71	84	95	100		BNV
MAY 19	15:06	4	520		7.0	1	080 R	6	11	19	30	44	62	81	94	99	100		BNV
MAY 19	18:30	4	520		7.5	1	460 K	4	8	15	23	34	49	65	79	94	100		BNV
MAY 22	12:43	4	110	H	8.0		834 K	5	7	14	23	30	37	46	64	92	100		BNV
MAY 26	11:23	4	110	H	7.5		415 K	4	7	15	27	38	47	61	77	91	100		BNV
MAY 28	05:02	4	110	H	7.5		525 K	6	10	19	31	41	48	57	73	89	100		BNV
JUN 03	18:32	4	250	H	11.5		659 K	6	9	16	25	34	44	56	71	87	100		BNV
JUN 08	05:04	4	220	H	10.5		419 K	3	6	15	26	34	42	51	63	75	149		BNV
JUN 15	13:00	4	400	H	12.0		555 K	2	7	18	23	31	40	54	76	96	106		BNV
JUN 18	05:02	4	490	H	12.0		527 K	5	8	17	28	37	47	62	77	94	100		BNV
JUN 19	11:34	4	360	H	12.5		519 K	3	7	15	24	33	40	48	60	77	100		BNV
JUN 24	12:25	4	470	H	13.5		464 K	5	11	21	35	44	55	68	82	94	100		BNV
JUN 26	12:26	4	110	H	13.5		353 K	12	17	27	42	56	65	73	84	94	100		BNV
JUL 06	18:12	3	700	H	14.5		312 K	4	8	17	31	46	58	70	81	95	100		BNV
AUG 05	05:39	3	400	H			439 K	8	12	25	41	51	59	70	84	97	100		BNV
AUG 19	05:32	2	800	H			304 K	16	25	36	53	67	82	97	100				BNV
SEP 10	05:47	2	790	H			733 K	7	9	20	31	43	58	72	84	92	100		BNV
SEP 11	06:00	3	860	H		1	270 K	5	10	18	28	39	52	66	79	89	100		BNV
SEP 12	06:04	4	000	H			916 K	9	15	24	34	44	54	67	82	94	100		BNV
SEP 13	05:42	3	510	H			576 K	8	15	29	39	46	55	66	79	92	100		BNV

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

BRITISH COLUMBIA

ISKUT RIVER ABOVE SNIPPAKER CREEK - STATION NO. 08CG004

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		32.9 B				30.7 B				29.1 B			1
2		32.8 B				30.7 B				29.2 B			2
3		32.7 B				30.6 B				29.3 B			3
4		32.6 B				30.6 B				29.4 B			4
5		32.5 B				30.6 B				29.5 B			5
6		32.4 B				30.5 B				29.6 B			6
7		32.3 B				30.5 B				29.8 B			7
8		32.2 B				30.5 B				29.9 B			8
9		32.1 B				30.4 B				29.9 B			9
10		32.0 B				30.4 B				29.7 B			10
11		31.9 B				30.3 B				29.5 B			11
12		31.9 B				30.2 B				29.3 B			12
13		31.8 B				30.2 B				29.1 B			13
14		31.8 B				30.1 B				28.9 B			14
15		31.7 B				30.1 B				28.7 B			15
16		31.6 B				30.0 B			0.2	28.6 B	3 S	7.41	16
17		31.5 B				29.9 B				28.6 B			17
18		31.4 B				29.8 B				28.6 B			18
19		31.3 B				29.8 B				28.5 B			19
20		31.2 B				29.7 B				28.5 B			20
21		31.2 B				29.6 B				28.5 B			21
22		31.1 B				29.4 B				28.5 B			22
23		31.1 B				29.2 B				29.3 B			23
24		31.0 B				29.1 B				30.0 B			24
25		31.0 B				29.0 B							25
26		30.9 B				29.0 B				30.1 B			26
27		30.9 B				29.0 B				30.0 B			27
28		30.8 B				29.0 B				29.6 B			28
29		30.8 B								29.2 B			29
30		30.7 B								28.8 B			30
31		30.7 B								28.4 B			31
TOTAL		980.8				838.9				904.6			TOTAL
MEAN		31.6				30.0				29.2			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		28.0 B				56.1	29	141	6.5	606	1 230 S	64 400	1
2		27.5 B				60.4	33	172	6.5	681	1 010 S	59 400	2
3		27.0 B			4.5	60.0	37 S	192	6.0	714	817 S	50 400	3
4		26.6 B			4.0	63.0	50 S	272	6.0	679	724 S	42 500	4
5		26.2 B			4.0	73.6	74 S	471	6.0	544	425 S	20 000	5
6		26.2 B			4.0	94.1	141 S	1 150	6.0	501	390 S	16 900	6
7		26.2 B			4.0	124	210 S	2 250	7.0	520	489 S	22 000	7
8		26.2 B			3.0	134	198 S	2 290	8.5	607	864 S	45 300	8
9		26.2 B			3.5	140	165 S	2 000	7.5	685	762 S	45 100	9
10		26.2 B			4.0	153	194 S	2 560		709	645 S	39 500	10
11		26.3 B			4.0	155	134 S	1 790	8.0	826	627 S	44 700	11
12		26.4 B			4.0	172	209 S	3 110	8.0	953	918 S	75 600	12
13		26.5 B			3.5	152	85 S	1 120	8.5	1 040	892 S	80 200	13
14		26.6 B			3.5	141	55 S	670	8.5	1 030	603 S	53 700	14
15		26.8 B	22 S	50.9	3.5	144	47 S	585	8.5	889	520 S	39 900	15
16		26.8 B	21	48.6	5.0	157	92 S	1 250	8.5	772	517 S	34 500	16
17		26.8 B	20	46.3	6.0	212	326 S	5 970	8.5	887	525 S	40 200	17
18		27.0 B	21	49.0	5.0	248	346 S	7 410	10.0	983	679 S	57 700	18
19		29.0 B	21	52.6		220	139	2 640		1 130	800	78 100	19
20	2.0	32.3 A	22 S	61.4	5.0	210	109 S	1 980	9.5	1 170	824 S	83 300	20
21		37.0	22	70.3	5.0	203	93 S	1 630	9.5	1 080	617 S	57 600	21
22		35.1	22	66.7	5.0	178	59 S	907	9.5	866	466 S	34 900	22
23		35.5	23	70.5	5.5	172	54 S	802	9.0	785	467 S	31 700	23
24		36.4	23	72.3	5.0	173	55 S	822	9.0	877	572 S	43 300	24
25		37.5	23	74.5	5.0	175	56 S	847	9.5	1 040	713 S	64 100	25
26		38.6	24	80.0	5.0	170	43 S	632	10.0	1 250	864 S	93 300	26
27		40.3	24	83.6	6.5	197	82 S	1 400	9.5	1 190	847 S	87 100	27
28		47.6	24	98.7	7.0	248	251 S	5 380	10.0	1 200	727 S	75 400	28
29		52.8	26	119	7.0	323	497 S	13 900	9.0	1 170	692 S	70 000	29
30		51.3	28	124	6.5	392	652 S	22 100	9.5	1 130	652 S	63 700	30
31					7.0	504	1 070 S	46 600					31
TOTAL		952.9				5 504.2		133 043		26 514		1 614 500	TOTAL
MEAN		31.8				178		4 290		884		53 800	MEAN

BRITISH COLUMBIA

ISKUT RIVER ABOVE SWIPPAKER CREEK - STATION NO. 08CG004

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	10.5	1 250	695 S	75 100	9.0	822	778 S	55 300	7.5	446	605 S	23 300	1
2	10.5	1 110	655 S	62 800	9.0	649	635 S	35 600	8.5	796	1 870 S	129 000	2
3	10.5	957	582 S	48 100	9.0	566	533 S	26 100	8.0	615	1 320 S	70 100	3
4	9.0	880	556 S	42 300	8.5	492	491 S	20 900	7.0	463	959 S	38 400	4
5	9.0	775	511 S	34 200	9.5	460	411 S	16 300	7.5	419	819 S	29 600	5
6	9.0	750	493 S	31 900	9.0	449	344 S	13 300	8.0	532	919 S	42 200	6
7	8.5	748	630 S	40 700	9.0	482	379 S	15 800		449	1 370 S	76 800	7
8	9.0	803	611 S	42 400	10.5	601	727 S	37 800		407	675 S	23 700	8
9	8.5	647	377 S	21 100	9.5	690	862 S	51 400	8.0	340	508 S	14 900	9
10		692	483 S	28 900	8.5	554	614 S	29 400	7.5	314	468 S	12 700	10
11	9.5	613	368 S	19 500	8.5	468	495 S	20 000	7.0	293	385 S	9 750	11
12	9.5	542	323 S	15 100	8.5	423	395 S	14 400	7.5	272	216 S	5 080	12
13	9.5	623	453 S	24 400	8.5	406	392 S	13 800	7.5	256	153 S	3 380	13
14	9.0	886	706 S	54 000	8.5	426	535 S	19 700	8.0	260	216 S	4 850	14
15	8.5	850	560 S	41 100	9.5	467	612 S	24 700	8.5	317	518 S	14 200	15
16	8.5	810	524 S	36 700	9.5	477	592 S	24 400	9.0	333	598 S	17 200	16
17	8.5	720	376 S	23 400	9.0	473	478 S	19 500	8.0	340	533 S	15 700	17
18	8.5	661	334 S	19 100	8.5	401	381 S	13 200	7.5	337	466 S	13 600	18
19	7.5	585	270 S	13 600	7.5	367	290 S	9 200	7.0	353	481 S	14 700	19
20	8.5	556	293 S	14 100	9.5	379	366 S	12 000	7.5	373	542 S	17 500	20
21	8.5	580	401 S	20 100	10.5	406	382 S	13 400	7.5	331	363 S	10 400	21
22	9.0	673	459 S	26 700	8.5	407	446 S	15 700	7.0	278	198 S	4 760	22
23	10.5	693	439 S	26 300	8.5	404	357 S	12 500	7.0	244	177 S	3 730	23
24	9.5	652	396 S	22 300	9.0	515	779 S	34 700	7.5	255	212 S	4 670	24
25	10.0	716	600 S	37 100	9.0	569	961 S	47 200	7.5	283	283 S	6 920	25
26	9.0	793	718 S	49 200	9.0	556	864 S	41 500	7.5	269	246 S	5 720	26
27	9.5	785	572 S	38 800	8.0	557	1 140 S	54 900	7.5	264	212 S	4 840	27
28	9.0	853	693 S	51 100	8.5	453	718 S	28 100	5.5	224	124 S	2 400	28
29	10.0	905	908 S	71 000	7.5	395	503 S	17 200	6.0	192	105 S	1 740	29
30	9.5	948	941 S	77 100	8.0	378	449 S	14 700	6.5	238	282 S	5 800	30
31	10.0	1 060	1 200 S	110 000	8.0	379	401 S	13 100					31
TOTAL		24 116		1 218 200		15 071		765 800		10 693		627 640	TOTAL
MEAN		778		39 300		486		24 700		356		20 900	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m³/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	6.0	274	464 S	11 000		109 E				43.6 B			1
2	5.5	217	162 S	3 040		107 E				42.7 B			2
3	5.5	194	106 S	1 780		103 E				41.8 B			3
4	5.5	180	84 S	1 310		100 E				40.9 B			4
5	5.0	173	76 S	1 140		97.0 E				40.0 B			5
6	5.5	179	139 S	2 150		94.4 E				39.3 B			6
7	6.0	170	126 S	1 850		91.8 E				38.6 B			7
8	5.5	156	227 S	3 060		89.2 E				37.9 B			8
9	5.5	197	381 S	6 480		86.6 E				37.2 B			9
10	6.0	761	1 910 S	126 000		84.0 E				36.5 B			10
11	5.5	596	755 S	38 900		81.4 E				36.1 B			11
12	6.0	632	962 S	52 500		78.8 E				35.7 B			12
13	7.0	1 150	2 060 S	205 000		76.2 E				35.4 B			13
14	5.5	350 E	999 S	30 200		73.6 E				35.1 B			14
15	5.5	215 E	790 S	14 700		71.0 B				34.8 B			15
16	5.0	190 E	556 S	9 130		68.8 B				34.5 B			16
17	2.0	170 E	466 S	6 840		66.6 B				34.2 B			17
18	2.5	160 E	399 S	5 520		64.4 B				34.0 B			18
19	2.0	153 E	325 S	4 300		62.2 B				33.8 B			19
20	2.0	148 E	261 S	3 340		60.0 B				33.6 B			20
21	2.5	141 E	198 S	2 410		58.2 B				33.3 B			21
22	2.5	138 E	136 S	1 620		56.4 B				33.1 B			22
23	3.0	134 E	80 S	926		54.6 B				32.9 B			23
24	4.5	131 E	96 S	1 090		52.8 B				32.7 B			24
25	4.0	128 E	86 S	951		51.0 B				32.5 B			25
26	3.0	126 E	103 S	1 120		49.7 B				32.4 B			26
27	3.0	123 E	125 S	1 330		48.4 B				32.3 B			27
28		120 E	103 S	1 070		47.1 B				32.2 B			28
29	2.0	118 E	106 S	1 080		45.8 B				32.1 B			29
30	3.0	115 E	138 S	1 370		44.5 B				32.0 B			30
31	3.5	112 E	123 S	1 190						32.0 B			31
TOTAL		7 651		542 397		2 173.5				1 103.2			TOTAL
MEAN		247		17 500		72.5				35.6			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 2 060 ON OCT 13

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 205 000 ON OCT 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 41 55 N
LONG 130 52 23 W

DRAINAGE AREA 7 230 km²
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

BRITISH COLUMBIA

ISKUT RIVER ABOVE SNIPPAKER CREEK - STATION NO. 08CG004

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 29	08:00	323	M	7.0	482	K	5	10	17	25	33	44	61	80	94	100		BMW
MAY 31	07:48	504	M	7.0	1 190	K	8	13	19	25	33	43	56	82	100			BMW
JUN 02	07:45	681	M	6.5	1 220	K	7	10	18	24	32	42	57	76	96	100		BMW
JUN 03	08:10	714	M	6.0	985	K	11	16	23	31	40	51	68	82	94	100		BMW
JUN 05	07:54	544	M	6.0	542	K	11	17	26	33	39	46	58	82	97	100		BMW
JUN 09	08:05	685	M	7.5	1 060	K	9	12	17	23	31	42	57	78	95	100		BMW
JUN 11	12:46	826	M	8.0	761	K	16	23	33	44	56	72	85	98	100			BMW
JUN 12	10:23	953	M	8.0	1 250	K	12	17	23	32	42	54	71	85	95	100		BMW
JUN 13	10:45	1 040	M	8.5	1 310	K	12	17	23	32	42	55	71	87	97	100		BMW
JUN 18	10:26	983	M	10.0	876	K	13	19	25	32	40	49	60	72	93	100		BMW
JUN 22	10:06	866	M	9.5	615	K	18	25	32	38	46	57	71	85	96	100		BMW
JUN 24	10:00	877	M	9.0	734	K	7	14	22	29	37	46	60	78	85	96	100	BMW
JUN 25	10:17	1 040	M	9.5	955	K	11	17	24	32	38	47	62	79	93	100		BMW
JUN 27	08:05	1 190	M	9.5	1 140	K	11	17	25	35	56	60	74	88	97	100		BMW
JUN 30	08:10	1 130	M	9.5	884	K	19	24	32	42	52	62	74	86	92	95	95	BMW
JUL 03	10:25	957	M	10.5	749	K	14	20	27	34	40	47	58	80	89	96	100	BMW
JUL 07	09:05	748	M	8.5	728	K	13	17	22	27	33	38	60	77	84	96	100	BMW
JUL 08	09:35	803	M	9.0	822	K	18	22	29	38	44	52	64	83	97	100		BMW
JUL 10	08:43	692	M	9.5	602	K	16	22	30	37	44	51	60	86	98	100		BMW
JUL 10	17:25	714		8.0	515	R	17	23	32	41	48	54	61	78	94	99	100	BMW
JUL 12	09:56	582	M	9.5	385	K	19	26	33	39	44	51	61	77	97	100		BMW
JUL 15	08:39	850	M	8.5	660	K	16	22	28	36	45	54	64	93	100			BMW
JUL 20	08:01	556	M	8.5	327	K	18	25	33	42	49	57	64	75	93	100		BMW
JUL 23	13:11	693	M	10.5	521	K	18	22	33	44	50	55	62	71	81	96	100	BMW
AUG 01	10:24	822	M	9.0	880	K	17	27	37	47	56	66	78	86	92	99	100	BMW
AUG 07	08:27	482	M	9.0	314	K	24	32	40	50	57	67	80	88	93	100		BMW
AUG 21	12:40	406	M	10.5	376	K	24	31	41	51	57	64	69	76	92	100		BMW
AUG 30	10:20	378	M	8.0	464	K	20	28	35	40	45	51	59	69	87	98	100	BMW
SEP 07	10:35	649	M	7.5	1 510	K	20	27	36	47	58	67	78	88	97	100		BMW
SEP 08	12:21	562		6.5	644	R	17	23	31	37	42	47	55	65	83	99	100	BMW
SEP 16	11:06	333	M	9.0	625	K	15	22	28	34	37	41	47	58	73	95	100	BMW
SEP 20	09:26	373	M	7.5	584	K	18	25	33	40	46	53	61	70	78	100		BMW
OCT 01	09:27	274	M	6.0	577	K	32	39	49	58	62	66	72	81	91	100		BMW
OCT 02	09:39	217	M	5.5	193	K	37	46	54	60	64	70	77	84	93	100		BMW
OCT 10	10:06	761	M	6.0	2 350	K	15	21	28	39	50	62	78	92	98	100		BMW
OCT 13	10:10	1 150	M	7.0	2 670	K	12	17	24	33	44	56	69	82	92	100		BMW
OCT 15	10:50	215	M	5.5	915	K	21	25	30	33	36	41	47	58	75	98	100	BMW

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

BRITISH COLUMBIA

ISKUT RIVER BELOW JOHNSON RIVER - STATION NO. 08CG001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		93.0 B				64.6 B				49.6 B			1
2		92.0 B				64.0 B				49.0 B			2
3		91.0 B				63.5 B				48.5 B			3
4		90.0 B				63.0 B				48.0 B			4
5		89.0 B				62.5 B				47.5 B			5
6		88.0 B				61.8 B				46.7 B			6
7		87.0 B				61.2 B				45.9 B			7
8		86.0 B				60.6 B				45.0 B			8
9		85.0 B				59.9 B				44.1 B			9
10		84.0 B				59.2 B				43.2 B			10
11		83.0 B				58.5 B				42.2 B			11
12		82.0 B				57.8 B				41.1 B			12
13		81.0 B				57.0 B				40.1 B			13
14		80.0 B				56.2 B				39.0 B			14
15		79.0 B				55.5 B				37.9 B			15
16		78.2 B				54.9 B				37.1 B			16
17		77.4 B				54.3 B				36.8 B			17
18		76.6 B				53.7 B				36.6 B			18
19		75.8 B				53.2 B				36.4 B			19
20		75.0 B				52.7 B				36.2 B			20
21		74.0 B				52.1 B				36.2 B			21
22		73.0 B				51.5 B				36.3 B			22
23		72.0 B				51.0 B				36.5 B			23
24		71.0 B				50.5 B				36.8 B			24
25		70.0 B				50.0 B				37.2 B			25
26		69.2 B				49.9 B				38.0 B			26
27		68.4 B				49.9 B				38.5 B			27
28		67.6 B				49.8 B				38.5 B			28
29		66.8 B								38.2 B			29
30		66.0 B								38.0 B			30
31		65.2 B								37.6 B			31
TOTAL		2 436.2				1 578.8				1 262.7			TOTAL
MEAN		78.6				56.4				40.7			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		37.2 B				96.5 E			8.5	880 E	592 S	45 000	1
2		36.9 B				98.0 E			7.5	960 E	578 S	47 900	2
3		36.6 B				100 E			8.0	1 030 E	581 S	51 700	3
4		36.3 B				104 E			7.0	1 100 E	423 S	40 200	4
5		36.0 B				114 E				1 010 E	301	26 300	5
6		35.8 B				130 E				840 E	234	17 000	6
7		35.9 B				150 E			7.5	660 E	238 S	13 600	7
8		36.1 B				173 E			8.5	922 A	311 S	24 800	8
9		36.3 B				200 E			8.0	980	415 S	35 100	9
10		36.5 E				178 E			9.0	1 020	412 S	36 300	10
11		37.0 E				195 E			8.5	1 110	470 S	45 100	11
12		37.5 E				220 E				1 240	590	63 200	12
13		38.0 E				270 E				1 340	722	83 600	13
14		38.6 E				225 E			8.5	1 300	608 S	68 300	14
15		39.2 E				200 E			7.5	1 190	421 S	43 300	15
16		39.8 E				215 E				1 050	357	32 400	16
17		40.3 E				260 E			10.5	1 120	435 S	42 100	17
18		42.5 E				310 E			11.0	1 220	491 S	51 800	18
19	4.0	47.0 E	13 S	52.8		410 E			8.5	1 360	726 S	85 300	19
20		71.7 E				375 E	44	1 430	8.0	1 450	820 S	103 000	20
21		75.0 E				335 E	36	1 040	7.5	1 410	668 S	81 400	21
22		77.5 E			5.0	305 E	32 S	843		1 220	477	50 300	22
23		79.3 E			5.0	290 E	32 S	802		1 110	401	38 500	23
24		80.0 E				285 E	31	763		1 170	443	44 800	24
25		81.0 E			7.5	281 E	37 S	898	8.5	1 350	639 S	74 500	25
26		83.0 E			8.5	280 E	45 S	1 090		1 510	776	101 000	26
27		84.5 E			9.0	295 E	59 S	1 500		1 630	851	120 000	27
28		87.0 E			9.0	315 E	95 S	2 590	8.0	1 620	734 S	103 000	28
29		91.0 E				400 E	180	6 220	8.5	1 610	731 S	102 000	29
30		95.0 E				600 E	307	15 900	8.5	1 510	626 S	81 700	30
31					7.5	780 E	447 S	30 100					31
TOTAL		1 628.5				8 189.5				35 922		1 753 200	TOTAL
MEAN		54.3				264				1 200		58 400	MEAN

BRITISH COLUMBIA

ISKUT RIVER BELOW JOHNSON RIVER - STATION NO. 08CG001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	10.5	1 460	609 S	76 800		1 230	567	60 300	6.5	836	420 S	30 300	1
2	8.5	1 440	536 S	66 700		980	443	37 500	7.5	1 400	1 650 S	200 000	2
3		1 270	491	53 900		880	397	30 200	6.0	1 250	1 190 S	129 000	3
4		1 210	488	51 000	8.0	773	337 S	22 500		913	597	47 100	4
5	8.5	1 140	469 S	46 200		702	303 S	18 400		788	195	13 300	5
6	8.0	1 080	397 S	37 000		691	259 S	15 500	6.5	988	560	47 800	6
7	8.0	1 060	384 S	35 200		720	264	16 400	5.5	1 340	1 450 S	168 000	7
8	8.5	1 160	500 S	50 100		907	418	32 800	6.5	831	565 S	40 600	8
9	8.0	999	409 S	35 300	8.5	1 080	687 S	64 100	7.5	605	312 S	16 300	9
10		1 030	438	39 000	7.0	956	469 S	38 700	6.5	494	204 S	8 710	10
11		972	386	32 400	7.0	783	311 S	21 000		449	148	5 740	11
12	7.5	869	305 S	22 900	9.0	703	235 S	14 300		395	104	3 550	12
13	8.5	954	338 S	27 900	7.0	639	207 S	11 400	8.5	358	91 S	2 810	13
14	7.5	1 170	591 S	59 700		674	230	13 400		376	160 S	5 200	14
15	8.5	1 200	496 S	51 400		784	328	22 200	9.0	538	314 S	14 600	15
16	8.0	1 130	385 S	37 600	8.0	803	351 S	24 400	8.0	637	340 S	18 700	16
17		1 050	351	31 800	8.0	794	314 S	21 500	7.0	634	499 S	16 400	17
18		1 020	327	28 800	7.0	707	259 S	15 800		643	301	16 700	18
19	6.5	957	310 S	25 600	9.5	570	185 S	9 110		684	327	19 300	19
20	9.0	867	278 S	20 800		594	220 S	11 300	6.0	745	365 S	23 500	20
21	9.0	886	285 S	21 800		680	252	14 800	6.5	676	286 S	16 700	21
22	10.0	983	337 S	28 600		715	251	15 500	7.0	495	197 S	8 430	22
23	8.5	1 030	434 S	38 600	7.0	702	237 S	14 400	7.5	395	126 S	4 300	23
24		987	489	41 700	8.0	867	467 S	35 000	6.0	404	123 S	4 290	24
25		1 040	509	45 700	8.0	1 030	732 S	65 100		498	233	10 000	25
26		1 150	551	54 700	8.0	1 020	515 S	45 400		496	186	7 970	26
27		1 150	583	57 900	6.5	1 080	723 S	67 500	4.0	464	105 S	4 210	27
28		1 220	610	64 300		879	374	28 400	6.0	367	84 S	2 660	28
29		1 280	693	76 600		726	254	15 900	5.5	272	78 S	1 830	29
30		1 290	749	83 500	7.5	681	244 S	14 400	6.5	392	201 S	6 810	30
31		1 420	924	113 000	6.5	715	230 S	14 200					31
TOTAL		34 474		1 456 500		25 065		831 410		19 363		894 810	TOTAL
MEAN		1 110		47 000		809		26 800		645		29 800	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m³/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	5.5	632	387	21 100		183 E				74.0 B			1
2		436	171	6 440		175 E				73.0 B			2
3		340	85	2 500		170 E				72.0 B			3
4	6.0	289	67 S	1 670		180 E				71.0 B			4
5	5.5	266	71 S	1 630		172 E				70.0 B			5
6	5.5	285	67 S	1 650		166 E				69.3 B			6
7	6.0	272	56 S	1 320		158 E				68.6 B			7
8	5.5	220	36 S	684		152 E				67.9 B			8
9		384	176	5 840		147 E				67.2 B			9
10		1 310	1 220	138 000		142 E				66.5 B			10
11	6.0	1 260	1 130 S	123 000		136 E				65.9 B			11
12		1 170	780	78 800		128 E				65.3 B			12
13	5.0	1 930	1 950 S	325 000		118 E				64.7 B			13
14		1 250 E	1 260	136 000		109 E				64.1 B			14
15		830 E	791	56 700		111 E				63.5 B			15
16		650 E	522	29 300		108 E				62.9 B			16
17		500 E	340	14 700		103 E				62.3 B			17
18	3.5	440 E	204 S	7 760		98.0 E				61.7 B			18
19		390 E	163	5 490		95.0 E				61.1 B			19
20		350 E	147	4 450		93.0 B				60.5 B			20
21		310 E	135	3 620		91.0 B				60.2 B			21
22		285 E	120	2 950		89.0 B				59.9 B			22
23		262 E	102	2 310		87.0 B				59.6 B			23
24		248 E	87	1 860		85.0 B				59.3 B			24
25		233 E	69	1 390		83.0 B				59.0 B			25
26		222 E	53	1 020		81.4 B				58.4 B			26
27		216 E	42	784		79.8 B				57.8 B			27
28	2.1	208 E	35 S	629		78.2 B				57.2 B			28
29		202 E	32	558		76.6 B				56.6 B			29
30		199 E	29	499		75.0 B				56.0 B			30
31		192 E	27	448						55.5 B			31
TOTAL		15 781		978 102		3 570.0				1 971.0			TOTAL
MEAN		509		31 600		119				63.6			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 1 950 ON OCT 13

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 325 000 ON OCT 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 44 20 N
LONG 131 40 25 W
DRAINAGE AREA 9 350 km²
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

BRITISH COLUMBIA

ISKUT RIVER BELOW JOHNSON RIVER - STATION NO. 08CG001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUN 01	12:23	880	8.5	608 K	14	20	28	38	49	63	79	92	99	100		BHW
JUN 03	10:26	1 030	8.0	670 R	11	17	25	36	45	55	66	76	87	100		BHW
JUN 10	14:29	1 060	10.0	458 R	15	22	32	48	55	68	82	93	98	100		BHW
JUN 14	22:33	1 300 H	8.5	500 K	20	27	36	48	59	68	83	91	95	100		BHW
JUN 17	15:00	1 120 H	10.5	483 R	17	24	37	50	60	71	82	91	97	100		BHW
JUN 18	15:28	1 220 H	11.0	503 K	18	26	37	50	64	77	91	98	100			BHW
JUN 20	14:03	1 450 H	8.0	871 K	14	21	31	43	57	72	86	96	100			BHW
JUN 28	10:32	1 620 H	8.0	737 K	17	25	34	46	58	72	83	92	97	100		BHW
JUN 30	09:01	1 510 H	8.5	639 R	21	30	41	52	61	71	83	93	98	100		BHW
JUL 06	08:26	1 080 H	8.0	410 K	20	29	39	51	61	71	87	98	100			BHW
JUL 09	19:43	946	7.5	404 R	12	17	30	41	52	61	72	88	97	100		BHW
JUL 15	12:55	1 200 H	8.5	470 K	18	26	38	50	60	72	87	97	100			BHW
JUL 23	05:48	1 030 H	8.7	410 K	7	13	29	49	63	75	88	96	99	100		BHW
AUG 04	12:36	773 H	8.0	349 R	17	30	40	50	59	70	84	94	99	100		BHW
AUG 05	16:25	702 H		310 K	28	36	50	58	66	75	85	93	97	100		BHW
AUG 09	09:10	1 080 H	8.5	823 K	18	24	36	48	59	73	88	96	99	100		BHW
AUG 10	11:29	956 H	7.0	481 K	25	37	49	61	70	77	87	96	99	100		BHW
AUG 17	11:40	794 H	8.0	335 K	27	36	50	66	75	81	90	98	100			BHW
AUG 18	11:51	707 H	7.0	264 R	34	42	54	66	73	80	87	92	97	100		BHW
SEP 02	16:48	1 400 H	7.5	1 900 K	16	25	36	49	63	79	93	99	100			BHW
SEP 07	18:04	1 340 H	6.5	1 770 K	15	23	34	49	63	77	94	100				BHW
SEP 08	09:26	831 H	6.0	552 R	23	29	37	47	55	66	83	95	99	100		BHW
SEP 17	07:25	634 H	7.0	305 K	19	40	50	58	66	76	88	98	100			BHW
OCT 13	10:41	1 930 H	5.0	2 250 R	14	20	28	40	53	69	86	96	98	99	99	BHW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

BRITISH COLUMBIA

KOOTENAY RIVER AT NICKS ISLAND - STATION NO. 08NN129

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1													1
2					4.0		6 S		0.3		22 S		2
3					2.0		6 S		0.4		36 S		3
4					2.0		9 S		0.4		18 S		4
5													5
6					0.1		4 S		0.5		24 S		6
7					0.1		13 S		0.7		12 S		7
8													8
9					0.1		5 S		0.6		62 S		9
10					1.0		8 S		0.6		11 S		10
11					4.0		7 S		1.0		16 S		11
12													12
13							41 S		1.0		10 S		13
14							25 S		5.0		13 S		14
15													15
16							29 S		7.0		11 S		16
17					0.3		67 S		9.0		20 S		17
18					0.4		120 S		8.0		15 S		18
19													19
20					0.4		32 S		8.0		16 S		20
21	4.0		12 S						6.0		13 S		21
22									6.0		8 S		22
23													23
24	4.5		7 S										24
25													25
26	4.5		7 S										26
27													27
28	4.5		5 S										28
29													29
30	4.0		6 S										30
31													31
TOTAL MEAN													TOTAL MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1													1
2	6.0		15 S		10.0		37 S		14.0		10 S		2
3					10.0		24 S		13.0		16 S		3
4	6.0		11 S		8.0		41 S		13.0		14 S		4
5					11.0		35 S		13.0		14 S		5
6	8.0		18 S		10.0		32 S		11.0		12 S		6
7					8.0		27 S		12.0		10 S		7
8	8.0		30 S		9.0		25 S		14.0		9 S		8
9					9.0		21 S		12.0		8 S		9
10	8.0		21 S		11.0		22 S		14.0		7 S		10
11					11.0		18 S		11.5		7 S		11
12	7.0		18 S		12.0		14 S		14.0		9 S		12
13					10.0		20 S		13.0		13 S		13
14	7.0		21 S		11.0		27 S		14.0		20 S		14
15					12.0		36 S		15.5		21 S		15
16	7.0		89 S		11.0		51 S		15.0		25 S		16
17					11.0		87 S		16.0		26 S		17
18	7.0		22 S		11.0		85 S		16.0		19 S		18
19					11.0		118 S		15.0		17 S		19
20	9.0		16 S		13.0		111 S		15.5		15 S		20
21					11.0		70 S		17.0		13 S		21
22	10.0		22 S		13.0		71 S		16.0		15 S		22
23					12.0		57 S		16.0		9 S		23
24	10.0		37 S		10.0		60 S		17.0		8 S		24
25					14.0		63 S		15.0		7 S		25
26	12.0		29 S		13.0		63 S		15.0		13 S		26
27					9.0		82 S		16.0		6 S		27
28	8.0		32 S		10.0		61 S		15.0		8 S		28
29					11.0		45 S		16.0		7 S		29
30	10.0		20 S		11.0		29 S		16.0		6 S		30
31					12.0		19 S		16.0		7 S		31
TOTAL MEAN					12.0		19 S						TOTAL MEAN

KOOTENAY RIVER AT NICKS ISLAND - STATION NO. 08NN129

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1													1
2	16.0		8 S		18.0		6 S		16.0		3 S		2
3													3
4					20.0		5 S		15.0		4 S		4
5	15.0		11 S										5
6	15.0		5 S		18.0		25 S		16.5		15 S		6
7	15.0		7 S										7
8	16.0		6 S										8
9	15.0		6 S		18.0		5 S		15.0		20 S		9
10	16.0		9 S										10
11	15.0		22 S		16.0		14 S		14.0		6 S		11
12	15.0		12 S										12
13	17.0		5 S		17.0		9 S		14.0		4 S		13
14	17.0		10 S										14
15	16.0		5 S						15.0		5 S		15
16	17.0		5 S		19.0		15 S						16
17	18.0		4 S						14.0		6 S		17
18			3 S		18.5		7 S						18
19	19.0		3 S										19
20	19.0		7 S		19.0		10 S						20
21	17.0		5 S										21
22	17.0		4 S						15.0		7 S		22
23	19.0		9 S		20.0		5 S						23
24	19.0		6 S						15.0		4 S		24
25	20.0		48 S										25
26	21.0		5 S		19.0		5 S						26
27	20.0		5 S						14.0		16 S		27
28	20.0		7 S										28
29	19.0		5 S						12.0		4 S		29
30	20.0		4 S										30
31	19.0		10 S										31
TOTAL MEAN													TOTAL MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	15.0		3 S		6.0		3 S						1
2									6.0		11 S		2
3					7.0		5 S						3
4	15.0		2 S						6.0		5 S		4
5					5.0		10 S						5
6	14.5		4 S										6
7									5.0		5 S		7
8	14.0		5 S		6.0		3 S						8
9									4.5		8 S		9
10					6.0		8 S						10
11	14.0		2 S						4.0		7 S		11
12					5.0		0 S						12
13	14.0		2 S						5.0		3 S		13
14													14
15	12.0		2 S		6.0		6 S		5.5		4 S		15
16													16
17					6.0		5 S		5.0		9 S		17
18	10.0		5 S										18
19					5.0		4 S						19
20	11.0		4 S						4.0		6 S		20
21													21
22	10.0		2 S		4.5		7 S		4.0		6 S		22
23													23
24					5.0		3 S		4.0		5 S		24
25	11.0		4 S										25
26					5.0		13 S						26
27	10.0		6 S						3.0		5 S		27
28													28
29	8.0		4 S		5.0		8 S		2.0		2 S		29
30													30
31									3.0		1 S		31
TOTAL MEAN													TOTAL MEAN

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 07 02 N
LONG 116 34 39 W

REGULATED FLOW SINCE 1972

S - SAMPLE(S) COLLECTED THIS DAY

REMARKS - WATER LEVEL STATION. INSTANTANEOUS SAMPLE VALUES ONLY 1978 AND AFTER.

BRITISH COLUMBIA

HORE CREEK NEAR THE MOUTH - STATION NO. 08CG005

SUSPENDED SEDIMENT FOR 1992

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		6.37 B				5.17 B				4.58 B			1
2		6.34 B				5.14 B				4.56 B			2
3		6.31 B				5.11 B				4.54 B			3
4		6.28 B				5.08 B				4.52 B			4
5		6.25 B				5.05 B				4.50 B			5
6		6.21 B				5.03 B				4.48 B			6
7		6.17 B				5.01 B				4.46 B			7
8		6.13 B				5.00 B				4.44 B			8
9		6.09 B				4.99 B				4.42 B			9
10		6.05 B				4.98 B				4.40 B			10
11		6.01 B				4.97 B				4.38 B			11
12		5.97 B				4.96 B				4.36 B			12
13		5.93 B				4.95 B				4.34 B			13
14		5.89 B				4.94 B				4.32 B			14
15		5.85 B				4.93 B				4.30 B			15
16		5.81 B				4.90 B							16
17		5.77 B				4.87 B			0.1	4.29 B			17
18		5.73 B				4.83 B				4.28 B	8 S	2.96	18
19		5.69 B				4.79 B				4.25 B			19
20		5.65 B				4.75 B				4.23 B			20
21		5.60 B				4.73 B				4.20 B			21
22		5.55 B				4.71 B				4.18 B			22
23		5.50 B				4.69 B				4.15 B			23
24		5.45 B				4.67 B				4.12 B			24
25		5.40 B				4.65 B				4.10 B			25
26		5.37 B				4.63 B				4.08 B			26
27		5.34 B				4.61 B				4.05 B			27
28		5.31 B				4.60 B				4.03 B			28
29		5.28 B								4.00 B			29
30		5.25 B								3.98 B			30
31		5.20 B								3.95 B			31
TOTAL		179.75				136.74				3.92 B			
MEAN		5.80				4.88				132.41			TOTAL
										4.27			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		3.90 B				9.08	19	14.9	5.0	87.3	295 S	2 230	1
2		3.88 B				8.99	17	13.2	4.0	91.9	305 S	2 420	2
3		3.86 B			6.0	8.94	13 S	10.0	5.0	95.9	315 S	2 610	3
4		3.84 B			4.0	9.63	7 S	5.82	2.5	88.5	327 S	2 500	4
5		3.82 B			3.5	10.7	9 S	8.32	3.0	76.2	209 S	1 380	5
6		3.81 B			3.5	13.0	16 S	18.0	3.0	71.5	193 S	1 190	6
7		3.80 B			3.5	15.3	24 S	31.7	5.5	71.9	244 S	1 520	7
8		3.79 B			2.5	16.1	16 S	22.3	6.0	93.0	339 S	2 720	8
9		3.78 B			2.0	16.8	13 S	18.9	6.5	107	431 S	3 980	9
10		3.80 E			3.5	17.8	29 S	44.6	6.0	110	361 S	3 430	10
11		3.81 E			3.0	18.7	20 S	32.3	5.0	122	378 S	3 980	11
12		3.88 E			2.0	21.3	31 S	57.0	7.5	146	553 S	6 980	12
13		4.00 E			3.0	18.8	12 S	19.5	7.5	144	578 S	7 190	13
14		4.24 E			3.5	17.7	9 S	13.8	7.0	141	591 S	7 200	14
15		4.55 E			3.5	18.2	12 S	18.9	7.5	124	514 S	5 510	15
16		4.90 E			3.0	20.4	26 S	45.8	7.5	116	523 S	5 240	16
17		5.60 E			6.5	30.2	111 S	290	8.5	127	648 S	7 110	17
18		6.40 E			4.0	34.0	85 S	250	9.0	136	549 S	6 450	18
19		6.70 E				28.0	44 S	106		152	609	8 000	19
20		6.45 E			4.0	27.9	43 S	104	7.5	162	854 S	12 000	20
21	1.0	6.34 A	0 S	0	3.5	25.7	37 S	82.2	7.5	153	841 S	11 100	21
22		5.90			4.0	22.5	28 S	54.4	5.5	117	549 S	5 550	22
23		5.94			6.0	22.2	26 S	49.9	7.0	116	434 S	4 350	23
24		6.33			3.5	23.1	45 S	89.8		132	599	6 830	24
25		6.31			3.0	22.8	23 S	45.3	6.0	157	884 S	12 000	25
26		6.72			4.0	23.5	30 S	60.9	6.5	173	1 020 S	15 200	26
27		7.23			4.5	28.6	82 S	194	6.5	193	1 170 S	19 500	27
28		8.32			4.0	37.4	101 S	326	7.5	197	948 S	16 100	28
29		8.85			4.0	48.4	192 S	803	7.5	198	1 100 S	18 800	29
30		8.53			4.5	62.4	235 S	1 270	7.0	177	690 S	10 600	30
31					4.0	80.5	271 S	1 880					31
TOTAL		159.28				758.64		5 890.54		3 876.2		213 670	TOTAL
MEAN		5.31				24.5		190		129		7 120	MEAN

NORE CREEK NEAR THE MOUTH - STATION NO. 08CG005

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	8.5	178	576 S	8 860	7.5	142	743 S	9 120	6.5	90.2	631 S	4 920	1
2	7.5	183	619 S	9 790	7.0	123	478 S	5 080	6.5	154	1 480 S	19 700	2
3	7.5	164	555 S	7 860	8.0	112	419 S	4 050	8.0	97.5	568 S	4 780	3
4	7.5	158	479 S	6 540	6.5	99.0	277 S	2 370	5.5	74.5	325 S	2 090	4
5	7.5	150	450 S	5 830	6.5	95.3	238 S	1 960	6.5	79.3	330 S	2 260	5
6	7.5	151	416 S	5 430	7.0	98.4	200 S	1 700	7.0	131	1 040 S	11 800	6
7	7.5	166	366 S	5 250	7.0	113	247 S	2 410	6.5	125	897 S	9 690	7
8	8.0	164	404 S	5 720	7.5	145	842 S	10 500	6.0	71.7	320 S	1 980	8
9	7.0	154	367 S	4 800	7.0	157	1 160 S	15 700	6.0	58.0	170 S	852	9
10	7.0	162	407 S	5 700	6.0	116	587 S	5 880	6.0	48.4	94 S	393	10
11	7.5	126	399 S	4 340	8.5	102	402 S	3 540	6.0	43.1	63 S	235	11
12	7.5	120	371 S	3 850	6.5	91.1	289 S	2 270	6.0	38.3	52 S	172	12
13	7.0	150	537 S	6 960	6.5	90.8	265 S	2 080	7.0	37.1	83 S	266	13
14	6.5	189	1 030 S	16 800	7.0	106	288 S	2 640	6.5	42.9	154 S	571	14
15	7.5	165	773 S	11 000	7.0	115	466 S	4 630	7.0	65.9	245 S	1 390	15
16	6.5	154	587 S	7 810	6.0	109	500 S	4 710	7.0	73.7	327 S	2 080	16
17	6.5	133	489 S	5 620	7.0	109	334 S	3 150	5.5	74.0	291 S	1 860	17
18	6.0	135	457 S	5 330	6.0	82.2	184 S	1 310	6.5	75.8	239 S	1 570	18
19	7.5	114	373 S	3 670	6.0	78.7	198 S	1 350	6.0	79.3	229 S	1 570	19
20	6.5	120	301 S	3 120	7.5	87.9	197 S	1 500	6.0	88.2	212 S	1 620	20
21	6.5	121	327 S	3 420	9.5	92.5	235 S	1 880	5.5	69.5	161 S	967	21
22	7.5	140	422 S	5 100	6.0	88.9	312 S	2 400	6.0	51.9	104 S	466	22
23	11.0	130	472 S	5 300	7.0	91.1	260 S	2 050	5.5	42.6	87 S	320	23
24	6.5	125	415 S	4 480	7.5	122	512 S	5 400	6.0	49.9	112 S	483	24
25	7.0	144	457 S	5 690	6.5	124	635 S	6 800	6.5	60.1	166 S	862	25
26	8.0	148	588 S	7 520	7.0	125	590 S	6 370	6.5	53.0	145 S	664	26
27	8.5	153	579 S	7 650	6.5	117	607 S	6 140	6.0	49.2	99 S	421	27
28	8.0	158	675 S	9 210	7.0	91.8	467 S	3 700	6.0	35.7	67 S	207	28
29	7.5	164	894 S	12 700	7.0	81.1	345 S	2 420	4.0	27.8	71 S	171	29
30	8.0	172	876 S	13 000	6.5	76.5	320 S	2 120	5.5	59.1	281 S	1 430	30
31	7.5	183	1 020 S	16 100	6.5	71.7	278 S	1 720					31
TOTAL		4 674		224 450		3 258.0		126 950		2 046.7		75 790	TOTAL
MEAN		151		7 240		105		4 100		68.2		2 530	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	4.5	53.7	317 S	1 470		17.0				8.44 B			1
2	4.5	37.8	169 S	552		16.7				8.38 B			2
3	5.0	29.6	74 S	189		17.4				8.32 B			3
4	5.0	25.7	44 S	97.7		18.4				8.26 B			4
5	5.0	25.2	34 S	74.0		16.8				8.20 B			5
6	5.5	26.3	29 S	65.9		16.3				8.10 B			6
7	5.0	24.8	28 S	60.0		15.5				8.00 B			7
8	4.0	20.5	36 S	63.8		14.2				7.90 B			8
9	4.5	35.4	253 S	774		14.7				7.80 B			9
10	4.5	165	632 S	9 010		14.9				7.70 B			10
11	4.5	82.8	180 S	1 290		13.1				7.64 B			11
12	4.5	121	677 S	7 080		12.5				7.58 B			12
13	6.0	179	999 S	15 500		12.1 B				7.52 B			13
14	3.0	88.3	549 S	4 190		11.9 B				7.46 B			14
15	3.5	61.1	225 S	1 190		11.5 B				7.40 B			15
16	3.0	44.8	130 S	503		11.1 B				7.32 B			16
17	1.5	36.6	90 S	285		10.7 B				7.24 B			17
18	2.0	32.3	61 S	170		10.4				7.16 B			18
19	1.0	27.3	36 S	84.9		10.1				7.08 B			19
20	1.0	24.6	26 S	55.3		10.0 B				7.00 B			20
21	2.5	23.9	29 S	59.9		9.70 B				6.96 B			21
22	2.0	23.1	19 S	37.9		9.50 B				6.92 B			22
23	2.0	22.1	15 S	28.6		9.40 B				6.88 B			23
24	3.0	21.4	16 S	29.6		9.30 B				6.84 B			24
25	2.5	20.2	16 S	27.9		9.20 B				6.80 B			25
26	2.0	19.3	20 S	33.4		9.00 B				6.75 B			26
27	2.5	18.3	15 S	23.7		8.90 B				6.70 B			27
28	2.0	16.9	13 S	19.0		8.80 B				6.65 B			28
29	2.0	17.8	10 S	15.4		8.60 B				6.60 B			29
30	2.5	18.7	6 S	9.69		8.50 B				6.55 B			30
31	2.5	17.7	7 S	10.7						6.50 B			31
TOTAL		1 361.2		43 000.39		366.20				228.65			TOTAL
MEAN		43.9		1 390		12.2				7.38			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 1 480 ON SEP 02

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 19 700 ON SEP 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 02 27 N
LONG 130 24 05 W
DRAINAGE AREA 844 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

BRITISH COLUMBIA

MORE CREEK NEAR THE MOUTH - STATION NO. 08CG005

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
						0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 31	09:17	80.5 M	4.0	270	K	17	23	29	38	47	54	61	91	100			BNW
JUN 01	09:41	87.3 M	5.0	293	K	15	20	27	37	45	50	58	87	98	100		BNW
JUN 02	08:52	91.9 M	4.0	307	K	17	23	33	44	50	59	69	81	93	100		BNW
JUN 06	09:00	71.5 M	3.0	192	K	21	29	40	48	54	60	69	81	93	100		BNW
JUN 09	09:00	107 M	6.5	459	K	12	20	30	36	43	52	63	75	87	100		BNW
JUN 10	07:36	110 M	6.0	391	K	14	20	27	35	40	45	54	68	92	100		BNW
JUN 11	11:26	122 M	7.5	349	K	10	15	26	36	43	49	56	72	94	100		BNW
JUN 11	12:15	113	5.0	356	R	13	19	30	40	47	53	60	82	96	100		BNW
JUN 12	11:35	146 M	7.5	603	K	11	18	27	36	42	50	62	89	100			BNW
JUN 20	11:26	162 M	7.5	850	K	11	18	25	31	38	45	54	75	96	100		BNW
JUN 23	10:20	116 M	7.0	424	K	11	19	30	37	41	46	54	76	96	100		BNW
JUN 29	09:20	198 M	7.5	1 090	K	27	37	48	59	69	78	88	95	98	100		BNW
JUL 03	11:24	164 M	7.5	499	K	29	38	47	55	61	68	77	88	97	100		BNW
JUL 05	10:18	150 M	7.5	394	K	30	38	45	52	57	63	73	85	95	100		BNW
JUL 10	13:08	124	7.0	423	R	14	21	35	50	58	66	73	81	91	100		BNW
JUL 11	09:52	126 M	7.5	336	K	28	36	45	54	60	68	78	88	96	100		BNW
JUL 19	09:52	189 M		972	K	17	25	36	45	56	70	86	95	99	100		BNW

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

MURRAY RIVER ABOVE WOLVERINE RIVER - STATION NO. 07FB005

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		8.90 B				8.00 B				5.99 B			1
2		8.60 B				8.20 B				6.20 B			2
3		8.65 B				8.40 B				6.45 B			3
4		9.00 B				8.70 B				6.68 B			4
5		9.30 B				8.80 B				6.79 B			5
6		9.35 B				8.65 B				6.79 B			6
7		9.40 B				8.45 B				6.65 B			7
8		9.45 B				8.05 B				6.40 B			8
9		9.80 B				8.02 B				6.45 B			9
10		10.1 B				8.00 B				6.60 B			10
11		10.3 B				8.00 B				6.75 B			11
12		10.4 B				7.70 B				6.75 B			12
13		10.3 B				7.40 B				6.60 B			13
14		10.0 B				7.25 B				6.40 B			14
15		9.30 B				7.20 B				6.15 B			15
16		9.10 B				7.25 B				6.00 B			16
17		9.30 B				7.40 B				6.00 B			17
18		9.50 B				7.65 B				6.05 B			18
19		9.00 B				7.80 B				6.30 B			19
20		8.55 B				7.55 B				6.60 B			20
21		8.25 B				7.20 B				6.90 B			21
22		8.00 B				6.80 B				7.05 B			22
23		7.70 B				6.40 B				7.00 B			23
24		7.65 B				6.00 B				6.75 B			24
25		7.75 B				5.80 B				6.60 B			25
26		7.95 B				5.73 B				6.54 B			26
27		7.85 B				5.70 B				6.25 B			27
28		7.80 B				5.78 B				6.10 B			28
29		7.80 B								6.03 B			29
30		7.85 B								5.99 B			30
31		7.90 B								5.90 B			31
TOTAL		274.80				207.88				199.71			TOTAL
MEAN		8.86				7.42				6.44			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		5.85 B				19.5 B	79	133		306	302	7 980	1
2		5.80 B				20.9 B	79	143	6.0	330	172 S	4 900	2
3		5.80 B				22.3 B	79	152		328	133	3 770	3
4		5.82 B				24.1 B	79	164		342	243	7 110	4
5		6.00 B				25.2 B	79	172		334	227	6 550	5
6		6.15 B				27.8 B	80	192		273	126	2 970	6
7		6.21 B				32.0 B	80	221	6.0	211	50 S	912	7
8		6.23 B				36.0 B	79	246	6.0	184	24 S	382	8
9		6.30 B				41.5 B	79	283		199	26	447	9
10		6.42 B				48.5 B	81	339		244	33	696	10
11		6.70 B				55.8 B	81	391	7.0	273	44 S	1 040	11
12		7.15 B			5.0	72.0	82 S	510		294	60	1 520	12
13		8.10 B				84.8	82	601		309	77	2 060	13
14		9.40 B				86.4	83	620	8.0	326	90 S	2 530	14
15		11.8 B				90.7	83	650		320	63	1 740	15
16		13.3 B				110	88	836	8.0	280	37 S	895	16
17		13.2 B			6.0	136	130 S	1 530		246	27	574	17
18		13.1 B				167	205	2 960	9.0	240	25 S	518	18
19		13.5 B			4.5	172	97 S	1 440		250	25	540	19
20		14.5 B				152	56	735		258	30	669	20
21		15.7 B			5.0	153	46 S	608	10.0	258	33 S	736	21
22		15.6 B				168	71	1 030		239	27	558	22
23		15.4 B				172	107	1 590	10.0	195	16 S	270	23
24		15.7 B				167	105	1 520		167	12	173	24
25		16.5 B			4.0	232	207 S	4 150	11.0	157	11 S	149	25
26		17.2 B				216	139	2 590		148	11	141	26
27		17.1 B			5.0	173	47 S	703		147	12	152	27
28		17.0 B				151	28	365	9.0	147	11 S	140	28
29		17.5 B				156	32	431		133	12	138	29
30		18.5 B				189	46	751	12.0	125	11 S	119	30
31					7.0	240	120 S	2 490					31
TOTAL		337.53				3 441.5		28 546		7 263		50 449	TOTAL
MEAN		11.3				111		921		242		1 680	MEAN

BRITISH COLUMBIA

MURRAY RIVER ABOVE WOLVERINE RIVER - STATION NO. 07FB006

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		127	15	165		103	24	214		58.2 E	11	55.3	1
2		142	26	319		121	42	439	10.0	60.5 E	64 S	335	2
3		145	30	376		160	79	1 090		65.0 E	41	230	3
4		153	29	383	12.0	146	53 S	669		65.0 E	20	112	4
5	10.0	196	71 S	1 200		121	32	335		63.0 E	9	49.0	5
6		194	68	1 140		106	25	229		60.3 E	6	31.3	6
7		171	39	576		101	24	209		59.0 E	6	30.6	7
8	12.0	153	18 S	238		90.9	24	188	10.5	191 A	9 S	149	8
9		133	11	126		86.2	23	171		274	68	1 610	9
10		115	12	119		85.3	23	170		343	86	2 550	10
11		103	21	187	12.0	88.1	22 S	167		235	50	1 020	11
12	13.0	94.7	35 S	286		84.0	21	152		167	26	375	12
13		90.7	38	298		73.6	20	127		132	14	160	13
14		164	656	9 300		68.3	20	118		108	10	93.3	14
15	10.0	489	2 220 S	93 800		66.1	18	103		94.1	10	81.3	15
16		600	2 400	124 000		75.4	22	143		84.0	10	72.6	16
17		367	947	30 000		96.1	38	316		77.5	9	60.3	17
18		245	264	5 590		94.0	27	219		74.8	8	51.7	18
19	11.0	198	107 S	1 830	11.0	80.6	10 S	69.6		69.5	8	48.0	19
20		171	92	1 360		71.1	6	36.9		64.4	8	44.5	20
21	10.0	158	81 S	1 110		66.3	6	34.4	10.0	60.0	7 S	36.3	21
22		248	127	2 720		64.5	6	33.4		56.8	6	29.4	22
23	13.0	222	110 S	2 110		60.7	5	26.2		54.8	6	28.4	23
24		193	89	1 480		57.4	5	24.8		50.7	6	26.3	24
25		167	62	895		60.4	5	26.1		55.4	6	26.0	25
26		143	38 S	469		60.9	5	26.3		51.6	5	22.3	26
27		127	30	329		58.1 A	5	25.1		50.2	5	21.7	27
28	14.0	117	28 S	283		60.3 E	5	26.0		51.7	4	17.9	28
29		108	26	243		62.5 E	6	32.4		54.7	4	18.9	29
30		102	25	220		61.0 E	5	26.4		50.8	4	17.6	30
31		97.4	24	202		59.8 E	5	25.8					31
TOTAL		5 733.8		281 354		2 589.6		5 472.4		2 876.8		7 403.7	TOTAL
MEAN		185		9 080		83.5		177		95.9		247	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		47.6	4	16.5		39.5				18.0 B			1
2		46.7	4	15.4		37.6				17.4 B			2
3		42.6	4	14.7		34.6				17.0 B			3
4		40.0	4	13.8		32.9				16.4 B			4
5		38.0	4	13.1		32.7				16.1 B			5
6		36.4	4	12.6		32.4							
7		37.1	4	12.8		31.6				15.8 B			6
8		37.7	3	9.77		29.1 B				15.7 B			7
9		36.9	4	12.8		26.9 B				15.6 B			8
10		35.9	4	12.4		25.0 B				15.4 B			9
										15.2 B			10
11		39.9	4	13.8		23.4 B							
12	4.0	50.6	9	39.3		22.5 B				15.2 B			11
13		49.0	8	33.9		22.3 B				16.1 B			12
14		45.4	7	27.5		22.0 B				16.3 B			13
15		45.2	7	27.3		21.2 B				16.1 B			14
										15.4 B			15
16		44.6	8	30.8		20.1 B							
17		46.8	12	48.5		19.3 B				14.9 B			16
18		43.6	12	45.2		18.7 B				14.1 B			17
19		39.4	12	40.8		18.0 B				13.4 B			18
20		36.8	11	35.0		17.7 B				12.8 B			19
										12.1 B			20
21	4.0	38.1	11 S	32.4		17.6 B							
22		33.1	11	31.5		18.0 B				11.9 B			21
23		34.8	11	33.1		18.3 B				11.7 B			22
24		36.8	11	35.0		18.6 B				11.9 B			23
25		37.8	11	35.9		18.7 B				12.4 B			24
										12.2 B			25
26		38.5	10	33.3		18.6 B							
27		39.9	13	44.8		18.8 B				12.2 B			26
28		43.6	14	52.7		19.3 B				12.3 B			27
29		46.0	12	47.7		19.5 B				12.5 B			28
30		42.8	11	40.7		19.0 B				13.1 B			29
31		39.8	10	34.4						13.2 B			30
										13.1 B			31
TOTAL		1 265.4		897.47		713.9				485.4			TOTAL
MEAN		40.8		29.0		23.8				15.4			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 03 55 N
LONG 121 01 00 W
DRAINAGE AREA 2 410 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MURRAY RIVER ABOVE WOLVERINE RIVER - STATION NO. 07FB006

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUL 15	11:25	17 000	10.0	2 120 R	26	36	49	63	77	89	96	99	100			BHW
JUL 15	11:34	17 000	10.0	2 150 K	26	37	48	61	75	86	94	98	100			BHW

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

BRITISH COLUMBIA

MURRAY RIVER NEAR THE MOUTH - STATION NO. 07FB002

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		14.0 B				12.8 B				9.30 B			1
2		13.3 B				13.1 B				9.70 B			2
3		13.6 B				13.4 B				9.90 B			3
4		14.0 B				13.8 B				10.1 B			4
5		14.1 B				14.0 B				10.3 B			5
6		14.1 B				13.8 B				10.2 B			6
7		14.2 B				13.2 B				10.1 B			7
8		14.8 B				12.5 B				9.90 B			8
9		15.3 B				12.4 B				9.90 B			9
10		15.7 B				12.3 B				10.1 B			10
11		15.8 B				11.9 B				10.3 B			11
12		15.8 B				11.4 B				10.4 B			12
13		15.3 B				11.3 B				10.2 B			13
14		14.6 B				11.1 B				9.70 B			14
15		13.9 B				11.1 B				9.45 B			15
16		13.8 B				11.3 B				9.25 B			16
17		14.1 B				11.6 B				9.20 B			17
18		14.2 B				11.8 B				9.30 B			18
19		13.4 B				12.0 B				9.70 B			19
20		12.9 B				11.7 B				10.1 B			20
21		12.4 B				10.8 B				10.5 B			21
22		12.2 B				10.1 B				10.7 B			22
23		12.0 B				9.50 B				10.3 B			23
24		11.9 B				9.10 B				10.1 B			24
25		12.2 B				8.90 B				9.80 B			25
26		12.4 B				8.80 B				9.50 B			26
27		12.2 B				8.80 B				9.25 B			27
28		12.1 B				8.90 B				9.10 B			28
29		12.1 B								8.98 B			29
30		12.2 B								8.85 B			30
31		12.3 B								8.80 B			31
TOTAL		420.9				321.40				302.98			TOTAL
MEAN		13.6				11.5				9.77			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		8.78 B				31.8 B			8.0	493	733 S	31 200	1
2		8.79 B				35.5 B				582	804	40 400	2
3		8.83 B				39.5 B			7.0	569	513 S	25 200	3
4		9.00 B				45.0 B				556 A	316	15 200	4
5		9.32 B				51.0 B				508 A	217	9 520	5
6		9.38 B				60.0 B				446	161	6 200	6
7		9.40 B				74.0 B				354	132	4 040	7
8		9.41 B				92.0 B			7.0	302	117 S	3 050	8
9		9.60 B				116			10.0	300	102 S	2 640	9
10		10.0 B				123			10.0	348	168 S	5 050	10
11		10.9 B				140				390	251	8 460	11
12		12.1 B				166				420	321	11 600	12
13		14.1 B				175 A	466 S	7 050		442	418	16 000	13
14		17.2 B			4.0	175	467	7 060		461	403	16 100	14
15		20.0 B				176	481	7 310	9.0	457	267 S	10 500	15
16		20.3 B				197	519	8 830		403	161	5 610	16
17		20.1 B				236	590	12 000	10.0	360	89 S	2 770	17
18		20.0 B			7.0	290	815 S	20 400		339	72	2 110	18
19		20.3 B				318	682	18 700		345	68	2 030	19
20		22.0 B			5.0	284	241 S	5 910		355	66	2 020	20
21		23.5 B				274	148	3 500		353	66	2 010	21
22		23.3 B				291	197	4 950	11.5	333	64 S	1 840	22
23		23.0 B				299	203	5 240		289	52	1 300	23
24		23.2 B				284	142	3 480	11.0	241	46 S	958	24
25		24.8 B				347	300	8 990		220	43	817	25
26		26.3 B				372	410 S	13 200		210	40	726	26
27		26.5 B			5.0	315	213	5 800		200	37	639	27
28		26.1 B			7.0	276	92 S	2 190		202	38	593	28
29		26.9 B				268	72	1 670	12.0	191	31 S	512	29
30		28.7 B				304	92	2 420		175	30	454	30
31						377	267	8 700					31
TOTAL		521.81			6	229.8			10	844		229 549	TOTAL
MEAN		17.4				201				361		7 650	MEAN

MURRAY RIVER NEAR THE MOUTH - STATION NO. 07FB002

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	14.0	172	31 S	461		197	138	2 350		87.6	22	167	1
2		182	47	739		253	284	6 210		91.7	20	158	2
3		198	82	1 400		450	476	18 500		105	18	163	3
4		227	126	2 470		385	454	15 100		105	16	145	4
5		335	252	7 290	13.0	291	410 S	10 300		99.0	14	120	5
6	12.0	339	253 S	7 410		234	370	7 480		96.6	13	109	6
7	12.0	298	166 S	4 270		209	332	6 000		91.5	11	87.0	7
8		262	126	2 850		185	294	4 700		133	9	103	8
9		221	98	1 870		168	255	3 700	10.0	264	21 S	479	9
10		191	77	1 270		158	219	2 990		421	110	4 000	10
11		166	56	803		153	183	2 420		383	86	2 550	11
12		149	37	476		148	148	1 890		252	63	1 370	12
13	12.0	136	29 S	341	13.0	137	117 S	1 380		205	49	868	13
14	10.0	331	14 000 S	400 000		127	102	1 120		177	42	642	14
15		630 E	33 300 E	1 810 000		122	92	970		154	35	466	15
16		736 E	15 600 E	992 000		120	82	850		139	28	336	16
17		447 E	2 690 E	104 000		144	73	908		129	24	267	17
18		299 E	584 E	15 100		153	64	846		121	20	209	18
19		282 E	529 E	12 900		138	56	668		114	17	167	19
20	12.0	260 E	655 S	14 700	14.5	124	49 S	525		105	15	136	20
21		305 E	2 250	59 300		113	46	449		98.5	15	128	21
22	10.0	388 E	1 610 S	54 000		109	43	405	10.0	92.9	14 S	112	22
23		365 E	516	16 300		103	40	356		87.2	14	105	23
24		338 E	388	11 300		97.1	37	310		82.6	14	99.9	24
25		310 E	335	8 970		96.3	35	291		77.0	14	93.1	25
26		292 A	198	5 000		102	33	291		78.7	14	95.2	26
27	14.0	277	208 S	4 980		101	31	271		79.7	14	96.4	27
28		246	178	3 780		99.9	29	250		82.4	14	99.7	28
29	16.0	221	151 S	2 880		101	28	244		94.9	19	156	29
30		202	137	2 396		95.0	26	213		90.9	18	141	30
31		190	131	2 150		90.8	24	188					31
TOTAL		8 995		3 551 400		5 004.1		92 175		4 098.2		13 668.3	TOTAL
MEAN		290		115 000		161		2 970		137		456	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		85.0	18	132		61.8				32.9 B			1
2		80.9	18	126		58.0				32.3 B			2
3		75.3	18	117		55.5				31.0 B			3
4		70.4	18	109		52.9				30.0 B			4
5		66.8	18	104		53.4				29.8 B			5
6	6.0	64.0	17 S	94.0		52.2				28.9 B			6
7		62.6	17	91.9		50.4				28.3 B			7
8		64.3	17	94.4		46.1				28.4 B			8
9		63.2	17	92.8		41.6				28.2 B			9
10		60.9	17	89.4		40.0 B				27.3 B			10
11		60.7	17	89.2		38.3 B				27.3 B			11
12		69.8	19	115		36.8 B				29.2 B			12
13		76.1	18	118		36.6 B				30.0 B			13
14		70.5	16	97.5		36.6 B				29.6 B			14
15		68.3	15	88.5		36.2 B				28.5 B			15
16		69.6	15	90.2		34.5 B				27.6 B			16
17		70.8	15	91.8		33.1 B				27.0 B			17
18		69.0	14	83.5		32.0 B				25.0 B			18
19		63.3	14	76.6		31.0 B				23.5 B			19
20		58.9	14	71.2		30.9 B				22.0 B			20
21		56.2	14	68.0		31.0 B				21.6 B			21
22	4.0	54.6	14 S	66.0		31.5 B				21.5 B			22
23		54.3	14	65.7		32.1 B				21.9 B			23
24		59.1	14	71.5		32.8 B				22.8 B			24
25		61.3	14	74.1		32.9 B				22.7 B			25
26		63.6	14	76.9		33.0 B				22.1 B			26
27		64.6	14	78.1		34.0 B				22.2 B			27
28		68.1	14	82.4		35.0 B				22.8 B			28
29		71.0	13	79.7		35.1 B				23.2 B			29
30		68.4	13	76.8		34.0 B				24.2 B			30
31		64.1	13	72.0						24.0 B			31
TOTAL		2 055.7		2 783.2		1 189.3				815.8			TOTAL
MEAN		66.3		89.8		39.6				26.3			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 34 15 N
LONG 121 11 19 W
DRAINAGE AREA 5 620 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

MURRAY RIVER NEAR THE MOUTH - STATION NO. 07FB002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 13	12:50	5	800		486	K	19	25	37	53	67	81	94	100				BMW
MAY 13	13:05	5	800		466	R	17	24	37	53	69	83	93	98	100			BMW
MAY 18	15:30	10	200	M	7.0	861	K	10	15	25	38	53	72	87	95	99	100	BMW
MAY 26	08:08	13	100	M	5.0	440	K	8	11	19	32	49	67	85	95	99	100	BMW
JUN 03	08:13	20	100	M	7.0	527	K	7	13	22	34	47	64	81	94	100		BMW
JUL 06	09:18	12	000	M	12.0	260	K	14	19	30	44	59	75	88	96	100		BMW
JUL 19	14:25	11	700	M	7.2	17 600	K	28	35	45	56	70	87	99	100			BMW

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

MUSKWA RIVER NEAR FORT NELSON - STATION NO. 10CD001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		23.1 B				20.4 B				16.5 B			1
2		22.5 B				20.1 B				16.6 B			2
3		21.4 B				20.1 B				17.2 B			3
4		22.0 B				20.7 B				17.6 B			4
5		23.2 B				22.0 B				17.7 B			5
6		23.3 B				22.7 B				18.2 B			6
7		23.0 B				21.5 B				18.9 B			7
8		24.0 B				21.0 B				19.0 B			8
9		26.0 B				21.3 B				18.9 B			9
10		26.8 B				21.4 B				19.9 B			10
11		26.4 B				21.0 B				19.8 B			11
12		27.5 B				20.0 B				18.3 B			12
13		27.5 B				17.7 B				17.7 B			13
14		26.5 B				16.8 B				18.1 B			14
15		24.4 B				16.5 B				17.5 B			15
16		23.4 B				16.5 B				17.0 B			16
17		23.6 B				17.1 B				17.1 B			17
18		22.4 B				18.4 B				17.5 B			18
19		20.5 B				19.4 B				19.0 B			19
20		19.8 B				19.5 B				20.0 B			20
21		19.9 B				18.5 B				20.6 B			21
22		19.4 B				17.8 B				21.0 B			22
23		19.7 B				17.3 B				20.7 B			23
24		22.1 B				16.4 B				20.1 B			24
25		23.1 B				16.2 B				19.2 B			25
26		23.2 B				17.0 B				18.8 B			26
27		22.5 B				17.5 B				18.7 B			27
28		21.4 B				17.2 B				17.7 B			28
29		20.0 B								16.3 B			29
30		20.1 B								15.5 B			30
31		20.5 B								15.3 B			31
TOTAL		709.2				532.0				566.4			TOTAL
MEAN		22.9				19.0				18.3			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		15.4 B				235 B	400 E	8 120		493	604	25 700	1
2		16.0 B				321	550 E	15 300	12.0	536	741 S	34 300	2
3		16.3 B				351	610 S	18 500		589	1 470	74 800	3
4		16.3 B				337	622	18 100		588	1 300	66 000	4
5		16.5 B			3.0	340	751 S	22 100	10.0	599	718 S	37 200	5
6		17.0 B				487	1 020	42 900		567	538	26 400	6
7		17.4 B				599	1 750 S	90 600	11.0	507	487 S	21 300	7
8		17.9 B				747	4 030	260 000		478	446	18 400	8
9		18.2 B				934	2 920	236 000	11.0	515	437 S	19 400	9
10		18.0 B				757	1 710 S	112 000		532	423 S	19 400	10
11		17.9 B				741	1 370	87 700	15.0	578	561 S	28 000	11
12		17.6 B			3.0	837	1 910 S	138 000		642	784	43 500	12
13		17.3 B			2.5	844	1 610 S	117 000		685	907	53 700	13
14		17.1 B			5.0	853	1 610 S	119 000	14.0	736	1 210 S	76 900	14
15		17.2 B				859	1 660	123 000		816	1 470	104 000	15
16		17.5 B				965	1 820	152 000	13.0	729	1 060 S	66 800	16
17		18.5 B			5.0	993	2 910 S	250 000		611	780	41 200	17
18		22.0 B				1 430	7 320	904 000	16.0	568 A	541 S	26 500	18
19		29.0 B			5.0	2 570	6 850 S	1 520 000		560 E	401	19 400	19
20		36.0 B				1 600	4 460	617 000		590 E	618	31 500	20
21		46.0 B				1 120	2 520	244 000		655 E	1 090	61 700	21
22		51.0 B			7.0	898	1 560 S	121 000	15.0	602 A	804 S	41 800	22
23		54.5 B				744	1 290	82 900		553	700	23 900	23
24		57.0 B				645	1 060	59 100		482	389	16 200	24
25		60.5 B			8.0	581	810 S	40 700		447	344	13 300	25
26		63.0 B				524	590	26 700	15.0	441	323 S	12 300	26
27		67.0 B				475	515	21 100		431	310	11 500	27
28		75.5 B				452	510 S	19 900		425	300 S	11 000	28
29		113 B				483	546	20 900		421	292	10 600	29
30		165 B				468	568	23 000	18.0	417	286 S	10 300	30
31					10.0	485	590 S	24 700					31
TOTAL		1 131.6				23 635		5 535 320		16 793		1 047 000	TOTAL
MEAN		37.7				762		179 000		560		34 900	MEAN

BRITISH COLUMBIA

MUSKWA RIVER NEAR FORT NELSON - STATION NO. 10CD001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		436	309	11 600		279	121	2 920		220	113	2 150	1
2	18.0	460	406 S	16 100		288	118	2 940		209	80	1 440	2
3		488	767	32 300		298	114	2 940		203	59	1 030	3
4		534	1 230	56 700		301	112	2 910		223	109	2 100	4
5		581	1 350	67 800		301	110	2 860		246	176	3 740	5
6		574	940	46 600		306	117	3 090		228	99	1 950	6
7		484	718	30 000		297	118	3 030		218	66	1 240	7
8		451	610	23 800		275	118	2 800		210	64	1 160	8
9		442	511	19 500	18.0	262	116 S	2 630		219	81	1 530	9
10		423	407	14 900		259	118	2 640		222	143	2 740	10
11		399	317	10 900		301	162	4 210		235	199	4 040	11
12	17.0	376	232 S	7 540		388	464	15 600		226	155	3 030	12
13		351	166	5 030	11.0	469	824 S	33 400	10.0	209	86 S	1 550	13
14		333	152	4 370		474	630	25 800		195	74	1 250	14
15		334	150	4 330		457	521	20 600		180	72	1 120	15
16		361	256	7 980		407	471	16 600		170	67	984	16
17		365	248	7 820		364	441	13 900		164	68	964	17
18		365	234	7 380		350	408	12 300		163	65	915	18
19		349	222	6 690		343	376	11 100		163	68	958	19
20	11.0	349	211 S	6 360		319	341	9 400		161	68	946	20
21		344	197	5 860		293	309	7 820		156	68	917	21
22		321	175	4 850		274	277	6 560		153	66	872	22
23		301	154	4 000		258	239	5 330		150	64	829	23
24	17.0	286	152 S	3 760		244	210	4 430		145	59	739	24
25		283	147	3 590		239	192	3 960		141	53	646	25
26		284	138	3 390		254	225	4 940		140	51	617	26
27		280	136	3 290		265	288	6 590		137	50	592	27
28		281	133	3 230		268	258	5 970		136	50	588	28
29		281	129	3 130		262	222	5 030		138	48	572	29
30		274	127	3 010		247	186	3 970	6.0	138	49 S	584	30
31		274	124	2 940		233	152	3 060					31
TOTAL		11 664		428 750		9 575		249 330		5 498		41 793	TOTAL
MEAN		376		13 800		309		8 040		183		1 390	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		136	48	564		50.3 B				36.0 B			1
2		130	46	517		50.0 B				35.4 B			2
3		126	44	479		51.0 B				35.2 B			3
4		122	41	432		51.0 B				35.1 B			4
5		118	37	377		48.0 B				34.5 B			5
6		115	34	338		43.5 B				33.4 B			6
7		112	30	290		40.8 B				33.0 B			7
8		108	27	252		39.5 B				33.7 B			8
9	5.0	105	23 S	209		39.7 B				34.6 B			9
10		102	21	185		39.7 B				34.3 B			10
11		101	20	175		38.6 B				33.8 B			11
12		99.1	19	163		38.8 B				33.9 B			12
13		99.6	18	155		40.2 B				33.3 B			13
14		100	17	147		42.0 B				32.0 B			14
15		95.0 B	16	131		42.3 B				31.5 B			15
16		82.0 B	15	106		40.7 B				31.5 B			16
17		74.0 B	14	89.5		37.3 B				31.7 B			17
18		70.0 B	14	84.7		34.3 B				31.6 B			18
19		66.0 B	13	74.1		32.6 B				30.0 B			19
20		66.0 B	13	74.1		31.3 B				29.0 B			20
21		64.0 B	12	66.4		30.5 B				28.5 B			21
22		63.3 B	12	65.6		30.5 B				28.0 B			22
23		60.5 B	11	57.5		30.7 B				27.4 B			23
24		60.2 B	11	57.2		31.3 B				27.1 B			24
25		60.0 B	11	57.0		32.3 B				27.3 B			25
26		61.0 B	11	58.0		33.0 B				27.8 B			26
27		60.5 B	11	57.5		34.2 B				28.1 B			27
28		57.0 B	10	49.2		35.0 B				28.2 B			28
29		57.0 B	10	49.2		36.0 B				29.5 B			29
30		57.0 B	10	49.2		36.1 B				31.2 B			30
31		54.5 B	9	42.4						33.4 B			31
TOTAL		2 681.7		5 451.6		1 161.2				980.0			TOTAL
MEAN		86.5		176		38.7				31.6			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 7 320 ON MAY 18

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 1 520 000 ON MAY 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 47 18 N
LONG 122 39 33 W
DRAINAGE AREA 20 300 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MUSKWA RIVER NEAR FORT NELSON - STATION NO. 10CD001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000
MAY 13	17:20	31 100	2.5	1 520 R	20	28	39	51	63	75	84	93	98	100	BNW
JUN 10	16:15	18 400		429 R	32	40	52	63	72	79	86	95	99	100	BNW
JUL 20	16:30	12 400	11.0	218 R	44	53	67	78	84	88	93	97	98	100	BNW

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

BRITISH COLUMBIA

QUALITY CREEK NEAR THE MOUTH - STATION NO. 07FB005

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.004 B				0.003 B				0 B			1
2		0.004 B				0.003 B				0 B			2
3		0.003 B				0.004 B				0.001 B			3
4		0.003 B				0.005 B				0.003 B			4
5		0.005 B				0.006 B				0.005 B			5
6		0.009 B				0.006 B				0.004 B			6
7		0.009 B				0.006 B				0.003 B			7
8		0.010 B				0.005 B				0.004 B			8
9		0.011 B				0.005 B				0.006 B			9
10		0.015 B				0.006 B				0.007 B			10
11		0.016 B				0.005 B				0.007 B			11
12		0.016 B				0.005 B				0.006 B			12
13		0.018 B				0.004 B				0.004 B			13
14		0.017 B				0.004 B				0.005 B			14
15		0.015 B				0.005 B				0.005 B			15
16		0.015 B				0.008 B				0.004 B			16
17		0.016 B				0.010 B				0.004 B			17
18		0.014 B				0.011 B				0.004 B			18
19		0.012 B				0.012 B				0.006 B			19
20		0.010 B				0.011 B				0.010 B			20
21		0.005 B				0.006 B				0.012 B			21
22		0.002 B				0.003 B				0.013 B			22
23		0.001 B				0.001 B				0.012 B			23
24		0.001 B				0 B				0.010 B			24
25		0.001 B				0 B				0.010 B			25
26		0.002 B				0 B				0.010 B			26
27		0.002 B				0 B				0.010 B			27
28		0.002 B				0 B				0.009 B			28
29		0.002 B								0.009 B			29
30		0.002 B								0.008 B			30
31		0.002 B								0.008 B			31
TOTAL		0.244				0.134				0.199			TOTAL
MEAN		0.008				0.005				0.006			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.008 B				0.055 B							
2		0.008 B				0.074 B							
3		0.008 B				0.120 B							
4		0.008 B				0.250 B							
5		0.009 B				0.600 B							
6		0.009 B											
7		0.010 B				1.12 B							
8		0.011 B				2.20 B							
9		0.011 B				2.65 B							
10		0.011 B				2.90 B							
						3.15 B							
11		0.010 B											
12		0.010 B				3.39 B	291	85.2					
13		0.011 B			1.0	2.94 B	268 S	68.1	7.0	0.370	10	0.32	1
14		0.011 B				2.73	245	57.8		0.380	29 S	0.95	2
15		0.012 B				2.54	221	48.5		0.334	18	0.52	3
						2.51	202	43.8		0.317	14	0.38	4
16		0.013 B								0.880	42	3.19	5
17		0.013 B				2.41	158	32.9					
18		0.013 B			3.0	2.43	95 S	19.9		1.28 A	29		
19		0.015 B				2.33	67	13.5	6.0	0.744 A	13 S	3.21	6
20		0.017 B			2.0	1.79	58 S	8.97		0.638	7	0.84	7
						1.46	44	5.55		0.562	6	0.39	8
21		0.019 B								0.473	5	0.29	9
22		0.021 B			2.5	1.15	30 S	2.98				0.20	10
23		0.022 B				0.922	21	1.67	7.0	0.406	5 S		
24		0.023 B				0.765	17	1.12		0.332	5	0.18	11
25		0.023 B				0.669	14	0.81		0.296	5	0.14	12
					3.0	0.587	10 S	0.51	10.0	0.262	4	0.13	13
26		0.024 B								0.223	4	0.09	14
27		0.027 B				0.553 A	7	0.33				0.08	15
28		0.030 B			4.0	0.516	6 S	0.27	10.0	0.188	4 S		
29		0.035 B				0.443	6	0.23		0.165	3	0.06	16
30		0.043 B				0.390	6	0.20	10.0	0.153	2 S	0.04	17
31						0.377	6	0.20		0.149	2	0.03	18
					8.0	0.388	6 S	0.20		0.156	2	0.03	19
TOTAL		0.485				44.409						0.03	20
MEAN		0.016				1.43			13.0	0.138	2 S		
										0.123	2	0.02	21
									11.0	0.103	3	0.02	22
										0.094	3	0.03	23
									10.0	0.089	4 S	0.02	24
												0.03	25
									9.0	0.082	3		
										0.083	3 S	0.02	26
										0.093	3	0.02	27
										0.088	3	0.02	28
									11.0	0.135	17 S	0.02	29
												0.20	30
													31
										9.336		11.50	TOTAL
										0.311		0.38	MEAN

QUALITY CREEK NEAR THE MOUTH - STATION NO. 07FE005

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.179	17	0.26		0.958	12	0.99		0.170	2	0.03	1
2		0.202	13	0.23		3.36	46	13.4	9.5	0.138	2 S	0.02	2
3		0.212	12	0.22		5.94	122	62.6		0.129	2	0.02	3
4		0.607	32	1.68	10.0	3.26	86 S	24.2		0.143	4	0.05	4
5	9.0	1.48	54 S	6.91		2.20	51	9.69		0.245	6	0.13	5
6		1.24	37	3.96		1.66	32	4.59		0.202	3	0.05	6
7		1.66	24	3.44		1.23	24	2.55		0.167	1	0.01	7
8	9.5	1.16	13 S	1.30		0.953	19	1.56		0.212	4 S	0.07	8
9		0.780	6	0.40		0.778	13	0.87	9.5	0.851	4	0.29	9
10		0.619	3	0.16		0.659	8	0.46		0.778	3	0.20	10
11		0.470	2	0.08	11.0	0.562	4 S	0.19		0.616	3	0.16	11
12	10.0	0.384	2 S	0.07		0.487	4	0.17		0.492	3	0.13	12
13		0.370	3	0.10		0.426	4	0.15		0.397	3	0.10	13
14		4.54 E	274	107		0.471	3	0.12		0.328	3	0.09	14
15		9.23 E	355	283		0.480	3	0.12		0.272	3	0.07	15
16	12.0	3.84	193 S	64.0		0.581	2	0.10		0.231	3	0.06	16
17		2.51	109	23.6		0.530	1	0.05		0.197	3	0.05	17
18		1.77	58	8.87		0.427	1	0.04		0.171	3	0.04	18
19	11.0	1.32	19 S	2.17	8.5	0.350	1 S	0.03		0.160	3	0.04	19
20		1.09	8	0.75		0.310	1	0.03		0.150	3	0.04	20
21	11.0	1.55	136 S	18.2		0.304	1	0.03	8.0	0.142	3 S	0.04	21
22		5.20	233	105		0.318	1	0.03		0.136	3	0.04	22
23	9.0	2.95	88 S	22.4		0.279	1	0.02		0.128	3	0.03	23
24		2.12	50	9.16		0.248	1	0.02		0.125	3	0.03	24
25		1.66	21	3.01		0.215	1	0.02		0.130	2	0.02	25
26	12.0	1.23	11 S	1.17		0.233	1	0.02		0.143	2	0.02	26
27		0.933	7	0.56		0.226	1	0.02		0.184	4	0.06	27
28	14.0	0.756	6 S	0.39		0.200	1	0.02		0.636	10	0.55	28
29		0.612	5	0.26		0.183	2	0.03		0.634	7	0.38	29
30		0.510	5	0.22		0.228	3	0.06		0.474	4	0.16	30
31		0.466	4	0.16		0.191	3	0.05					31
TOTAL		51.650		668.73		28.287		122.23		8.781		2.98	TOTAL
MEAN		1.67		21.6		0.912		3.94		0.293		0.10	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.379	3	0.10		0.178 B				0.074 B			1
2		0.333	3	0.09		0.165 B				0.067 B			2
3		0.309	2	0.05		0.153 B				0.063 B			3
4		0.278	2	0.05		0.160 B				0.061 B			4
5	4.0	0.255	2 S	0.04		0.155 B				0.057 B			5
6		0.241	2	0.04		0.149 B				0.054 B			6
7		0.288	2	0.05		0.136 B				0.055 B			7
8		0.266	2	0.05		0.125 B				0.059 B			8
9		0.237	2	0.04		0.125 B				0.060 B			9
10		0.227	2	0.04		0.124 B				0.059 B			10
11		0.228	2	0.04		0.120 B				0.053 B			11
12		0.201	2	0.03		0.118 B				0.050 B			12
13		0.177	2	0.03		0.119 B				0.049 B			13
14		0.168	2	0.03		0.120 B				0.049 B			14
15		0.162	2	0.03		0.113 B				0.050 B			15
16		0.178	2	0.03		0.105 B				0.050 B			16
17		0.179	2	0.03		0.095 B				0.048 B			17
18		0.167 B	1	0.01		0.089 B				0.045 B			18
19		0.163 B	1	0.01		0.086 B				0.044 B			19
20		0.160	1	0.01		0.086 B				0.043 B			20
21	2.0	0.159	1 S	0.01		0.087 B				0.043 B			21
22		0.171	1	0.01		0.088 B				0.044 B			22
23		0.255	1	0.02		0.088 B				0.044 B			23
24		0.305	1	0.03		0.082 B				0.045 B			24
25		0.309	1	0.03		0.078 B				0.045 B			25
26		0.294	1	0.03		0.077 B				0.044 B			26
27		0.276	1	0.02		0.078 B				0.045 B			27
28		0.269	1	0.02		0.080 B				0.047 B			28
29		0.225	1	0.02		0.082 B				0.049 B			29
30		0.197	0	0		0.079 B				0.050 B			30
31		0.190	0	0						0.046 B			31
TOTAL		7.242		0.99		3.340				1.592			TOTAL
MEAN		0.234		0.03		0.111				0.051			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 08 45 N
LONG 120 55 24 W
DRAINAGE AREA 29.5 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

STIKINE RIVER ABOVE BUTTERFLY CREEK - STATION NO. 08CP001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		120 B				100 B				88.0 B			1
2		119 B				100 B				88.0 B			2
3		118 B				100 B				88.0 B			3
4		115 B				100 B				88.0 B			4
5		114 B				98.0 B				89.0 B			5
6		112 B				97.0 B							6
7		110 B				96.0 B				89.0 B			7
8		110 B				95.0 B				89.0 B			8
9		110 B				95.0 B				89.0 B			9
10		110 B				94.0 B				89.0 B			10
11		112 B				94.0 B							11
12		112 B				94.0 B				89.0 B			12
13		112 B				94.3 B				88.0 B			13
14		112 B				94.5 B				86.0 B			14
15		110 B				94.0 B				85.0 B			15
16		109 B				94.0 B				83.0 B			16
17		108 B				94.0 B				81.0 B			17
18		106 B				94.0 B				80.0 B			18
19		104 B				94.0 B				80.0 B			19
20		103 B				94.0 B				79.0 B			20
21		102 B				93.0 B				79.0 B			21
22		101 B				92.0 B				79.0 B			22
23		100 B				91.0 B				80.0 B			23
24		100 B				90.0 B				80.0 B			24
25		100 B				89.0 B							25
26		100 B				88.0 B				80.0 B			26
27		100 B				87.0 B				80.0 B			27
28		100 B				87.0 B				80.0 B			28
29		100 B								80.0 B			29
30		100 B								80.0 B			30
31		100 B								79.0 B			31
TOTAL		3 329				2 632.8				2 602.0			TOTAL
MEAN		107				94.0				83.9			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		78.0 B				148							1
2		77.0 B				153			8.0	1 940	332 S	55 600	2
3		76.0 B				160				2 260	284	55 500	3
4		76.0 B				166				2 520	722	157 000	4
5		76.0 B				174			9.0	2 720	1 340 S	315 000	5
6		76.1 B								2 610	1 060	239 000	6
7		76.0 B				189			9.0	2 330	699 S	141 000	7
8		76.5 B				216			9.5	2 170	712 S	133 000	8
9		77.0 B				241			10.0	2 310	685 S	137 000	9
10		77.0 B				259			10.0	2 570	668	148 000	10
11		77.0 B				291				2 760	684	163 000	11
12		76.0 B				320				2 970	727 S	187 000	12
13		76.0 B				366				3 130	866	234 000	13
14		75.0 B				356				3 250	1 120	314 000	14
15		74.0 B				329			10.0	3 120	1 020 S	275 000	15
16		74.0 B				321				2 930	882	223 000	16
17		74.0 B				338				2 630	790	180 000	17
18		75.0 B				375				2 430	712	149 000	18
19		75.0 B				467				2 430	662 S	139 000	19
20		76.0 B				562			11.0	2 600	678	152 000	20
21		77.5 B				612	814	43 000	11.0	2 790	773 S	186 000	21
22		80.0 B			5.0	615	694 S	36 900	11.0	2 730	707 S	167 000	22
23		84.0 B				559	453	21 900		2 390	682	141 000	23
24		88.5 B				515	288	12 800	11.5	2 050	671 S	119 000	24
25		93.0 B			6.0	480	211 S	8 750		1 890	602	98 300	25
26		99.0 B			6.0	452	222 S	8 670	13.0	1 920	584 S	96 900	26
27		106 B				429	219			2 040	609	107 000	27
28		113 B			7.0	462	168 S	8 120	12.5	2 110	654 S	119 000	28
29		122 B			9.0	594	432 S	6 710		2 200	683	130 000	29
30		132 B				861	1 220	22 200		2 200	661	126 000	30
31					9.5	1 160	1 830 S	90 800		2 080	607	109 000	31
TOTAL		2 512.6			9.0	1 570	1 750 S	183 000		74 080		4 796 300	TOTAL
MEAN		83.8				13 740		237 000		2 470		160 000	MEAN
						443							

STIKINE RIVER ABOVE BUTTERFLY CREEK - STATION NO. 08CF001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1 980	536	91 700		1 260	291	31 700		921	480	38 200	1
2		1 910	456 S	75 300		1 070	237	21 900		1 200	572	59 300	2
3		1 850	409	65 400	11.0	965	260 S	21 700	9.5	1 230	606 S	64 400	3
4		1 820	413	64 900		870	270	20 300		1 130	481	47 000	4
5	11.0	1 780	443 S	68 100	10.0	830	211 S	15 100	10.5	1 060	290 S	26 600	5
6	12.0	1 740	501 S	75 300	11.0	797	159 S	10 900	9.5	1 070	286 S	26 400	6
7		1 670	521	75 200		784	136	9 210	9.0	1 120	393 S	38 000	7
8		1 700	496	72 900	12.5	856	207 S	15 300		985	295	25 100	8
9	12.5	1 610	453 S	63 000	12.0	978	366 S	30 900	8.0	843	177 S	12 900	9
10		1 490	396	51 000	10.0	923	411 S	32 800	8.0	767	154 S	10 200	10
11	12.5	1 380	336 S	40 100		794	277	19 000		724	129	8 070	11
12	12.5	1 260	276 S	30 000	9.0	738	181 S	11 500	9.5	682	100 S	5 890	12
13	12.0	1 230	420 S	44 600	10.0	740	167 S	10 700		658	123 S	6 990	13
14		1 400	641	77 500		756	175	11 400		667	253	14 600	14
15	11.0	1 570	663 S	89 900	12.0	788	175 S	11 900		823	440 S	31 300	15
16	11.5	1 540	491 S	65 300	9.5	815	272 S	19 200		919	496	39 400	16
17		1 430	365	45 100	10.0	799	223 S	15 400	8.5	884	372 S	28 400	17
18	11.5	1 280	319 S	35 300		743	199	12 800		804	254	17 600	18
19		1 160	288	28 900	10.0	762	185 S	12 200	9.0	745	169 S	10 900	19
20	10.0	1 140	258 S	25 400	10.5	734	143 S	9 070		753	118 S	7 680	20
21		1 190	261	26 800		731	139	8 780		733	94	5 950	21
22		1 240	299	32 000	11.5	759	136 S	8 920		648	85 S	4 760	22
23		1 230	367 S	36 900	10.5	774	147 S	9 830	8.0	576	91 S	4 530	23
24		1 210	355	37 100	10.5	917	432 S	34 200	8.5	552	81 S	3 860	24
25		1 230	329	35 000		1 100	738	70 100		557	68	3 270	25
26		1 240	307	32 900	10.0	1 100	618 S	58 700	8.0	560	65 S	3 140	26
27		1 220	288	30 400	9.5	1 070	380 S	35 100	9.0	551	72 S	3 430	27
28		1 210	277	29 000		1 070	286	26 400	8.0	509	50 S	2 200	28
29		1 180	277	28 200	11.0	1 040	265 S	23 800		473	49	2 000	29
30		1 240	283	30 300	10.0	976	279 S	23 500	8.0	510	140 S	6 170	30
31		1 370	318	37 600	10.5	931	369 S	29 700					31
TOTAL		44 500		1 581 100		27 470		672 010		23 654		558 240	TOTAL
MEAN		1 440		49 700		886		21 700		788		18 600	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	6.5	586	280 S	14 200		337				177 B			1
2		533	129	5 940		322				172 B			2
3	6.0	483	61 S	2 550		317				168 B			3
4	6.0	446	42 S	1 620		318				165 B			4
5		424	38	1 390		312				165 B			5
6		413	35	1 250		284				164 B			6
7	6.0	402	29 S	1 010		263				164 B			7
8	6.0	388	36 S	1 210		256				165 B			8
9		387	72	2 410		247				161 B			9
10	6.0	480	119 S	4 940		246 B				159 B			10
11	5.5	546	115 S	5 430		242 B				159 B			11
12		718	268	16 600		231 B				159 B			12
13		1 160	737	73 900		229 B				159 B			13
14	5.0	1 040	628 S	56 400		227 B				156 B			14
15		880	444	33 800		225 B				150 B			15
16		757	304	19 900		219 B				150 B			16
17		663	185	10 600		204 B				150 B			17
18		574	87 S	4 310		195 B				150 B			18
19		532	53	2 440		189 B				150 B			19
20		515	51	2 270		188 B				147 B			20
21		481	50	2 080		187 B				142 B			21
22		461	47	1 870		188 B				141 B			22
23		452	48	1 870		188 B				141 B			23
24		439	46	1 740		189 B				142 B			24
25		426	44	1 620		188 B				142 B			25
26		403	43	1 500		185 B				141 B			26
27		391	42	1 420		181 B				140 B			27
28		372	38	1 220		179 B				139 B			28
29		354	34	1 040		179 B				138 B			29
30		347	30	899		178 B				135 B			30
31		350	31	937						133 B			31
TOTAL		16 403		278 366		6 893				4 724			TOTAL
MEAN		529		8 980		230				152			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MAXIMUM DAILY 1 830 ON MAY 30

SUSPENDED SEDIMENT LOAD(t/d)

MAXIMUM DAILY 315 000 ON JUN 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 29 10 N
LONG 131 45 00 W
DRAINAGE AREA 36 000 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

BRITISH COLUMBIA

STIKINE RIVER ABOVE BUTTERFLY CREEK - STATION NO. 08CF001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 30	14:37	1 160 N	9.5	1 900 R	9	13	20	28	38	53	74	90	97	100		BNW
JUN 04	12:56	2 720 N	9.0	1 770 K	9	14	20	28	35	44	57	81	97	100		BNW
JUN 07	13:38	2 170 N	9.5	855 K	9	13	19	25	32	40	51	82	98	100		BNW
JUN 14	14:47	3 120 N	10.0	994 R	21	27	37	49	62	75	88	96	99	100		BNW
JUN 18	11:02	2 430 N	11.0	663 K	9	16	25	34	44	56	71	84	94	100		BNW
JUN 20	09:27	2 790 N	11.0	794 R	12	18	27	37	48	60	74	85	94	99	100	BNW
JUL 02	13:30	1 910 N		501 K	11	17	25	33	41	51	65	84	97	100		BNW
JUL 05	09:17	1 780 N	11.0	438 R	11	16	23	30	36	43	56	77	92	100		BNW
JUL 10	13:05	1 490 N	11.5	518 K	13	19	29	40	50	61	72	83	93	100		BNW
JUL 15	09:13	1 570 N	11.0	695 K	14	19	29	42	54	64	76	86	93	100		BNW
AUG 03	18:54	965 N	11.0	284 R	6	11	21	36	52	65	79	90	96	100		BNW
AUG 10	08:06	923 N	10.0	431 K	3	14	26	43	51	62	74	86	96	100		BNW
AUG 24	14:27	917 N	10.5	540 K	9	14	25	35	47	60	72	83	93	100		BNW
AUG 26	07:32	1 100 N	10.0	724 K	6	13	22	30	37	47	60	77	92	100		BNW
AUG 27	11:30	1 070 N	9.5	414 K	14	21	27	35	45	56	68	89	98	100		BNW
SEP 03	14:47	1 230 N	9.5	671 K	11	17	26	36	45	55	67	88	98	100		BNW
SEP 07	10:43	1 120 N	9.0	446 K	11	18	27	35	42	50	61	75	89	100		BNW
OCT 14	12:25	1 040 N	5.0	697 K	11	19	28	39	49	60	71	81	92	100		BNW

N - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

STIKINE RIVER ABOVE GRAND CANYON - STATION NO. 08CB001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		52.0 B				43.0 B				33.0 B			1
2		50.0 B				43.0 B				33.5 B			2
3		50.0 B				43.0 B				34.0 B			3
4		48.0 B				43.0 B				34.0 B			4
5		46.0 B				43.0 B				34.0 B			5
6		45.5 B				42.5 B				34.0 B			6
7		45.5 B				42.0 B				34.5 B			7
8		45.5 B				41.0 B				34.5 B			8
9		45.9 B				40.0 B				34.5 B			9
10		47.0 B				39.0 B				34.5 B			10
11		48.0 B				38.0 B				34.0 B			11
12		48.0 B				37.0 B				34.0 B			12
13		47.5 B				37.0 B				34.0 B			13
14		46.0 B				37.0 B				33.5 B			14
15		45.0 B				37.0 B				33.0 B			15
16		44.0 B				37.0 B				33.0 B			16
17		43.5 B				37.0 B				32.5 B			17
18		43.0 B				37.0 B				32.5 B			18
19		43.0 B				37.0 B				32.5 B			19
20		43.0 B				36.0 B				32.5 B			20
21		42.5 B				36.0 B				33.0 B			21
22		42.5 B				35.0 B				33.0 B			22
23		42.5 B				34.5 B				33.0 B			23
24		42.5 B				34.0 B				33.0 B			24
25		42.5 B				34.0 B				33.0 B			25
26		42.5 B				33.5 B				33.0 B			26
27		42.5 B				33.0 B				32.5 B			27
28		42.5 B				33.0 B				32.0 B			28
29		42.5 B								31.5 B			29
30		42.5 B								31.0 B			30
31		43.0 B								31.0 B			31
TOTAL		1 394.4				1 062.5				1 028.0			TOTAL
MEAN		45.0				37.9				33.2			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		30.5 B				46.5 B			6.7	911	1 060 S	83 400	1
2		30.0 B				50.5 B			6.7	1 060	1 220 S	112 000	2
3		30.0 B				57.0 B			6.1	1 210	1 050 S	110 000	3
4		30.0 B				60.0 B			6.1	1 310	989 S	112 000	4
5		30.5 B				63.0 B			4.4	1 230	892 S	94 800	5
6		31.0 B				72.0 B			5.6	1 070	794 S	73 400	6
7		31.0 B				89.5 B			6.7	997	425 S	36 600	7
8		31.5 B				102 B			7.2	1 110	401 S	38 500	8
9		31.5 B				114 B			6.7	1 240	533 S	57 100	9
10		31.5 B				133 B			7.2	1 390	889 S	107 000	10
11		31.5 B				154 B			7.2	1 530	1 020 S	135 000	11
12		31.0 B				172 B			7.8	1 590	1 180 S	162 000	12
13		31.0 B				160 B			7.2	1 640	1 150 S	163 000	13
14		31.0 B				148 B			7.2	1 630	987 S	139 000	14
15		31.0 B				146 B			6.7	1 530	650 S	85 900	15
16		32.0 B				160 B			7.8	1 360	382 S	40 200	16
17		32.0 B				195 B			7.2	1 290	299 S	33 300	17
18		32.4 B				256 B			8.3	1 320	170 S	19 400	18
19		32.4 B			1.5	308	445 S	11 800	8.3	1 430	353 S	43 600	19
20		32.4 B			2.8	324	333 S	9 320	8.3	1 510	546 S	71 200	20
21		32.4 B			2.8	314	219 S	5 940	7.2	1 450	468 S	58 600	21
22		32.5 B			3.3	286	142 S	3 510	8.3	1 230	364 S	38 700	22
23		32.5 B			3.3	260	95 S	2 130	8.9	1 030	123 S	10 900	23
24		32.6 B			3.3	240	75 S	1 560	8.9	942	139 S	11 300	24
25		33.5 B			3.3	220	67 S	1 270	10.6	944	125 S	10 200	25
26		34.5 B			2.8	216	69 S	1 290	11.1	977	159 S	13 400	26
27		36.0 B			3.3	239	86 S	1 780	10.6	997	258 S	22 200	27
28		38.0 B			4.4	312	201 S	5 420	10.0	1 000	126 S	10 900	28
29		39.5 B			6.1	438	534 S	20 200	10.6	992	210 S	18 000	29
30		42.0 B			7.2	600	879 S	45 600	11.1	950	122 S	10 000	30
31					8.9	767	943 S	62 500					31
TOTAL		977.7				6 702.5				36 870		1 921 600	TOTAL
MEAN		32.6				216				1 230		64 100	MEAN

BRITISH COLUMBIA

STIKINE RIVER ABOVE GRAND CANYON - STATION NO. 08CB001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	11.1	907	181 S	14 200	14.4	360	138 S	4 170		380	135	4 430	1
2	11.1	879	175 S	13 300	13.3	332	127 S	3 640		465	146	5 870	2
3	10.6	900	208 S	16 200	12.8	321	81 S	2 250	8.9	570	164 S	8 080	3
4	10.0	888	217 S	16 600	11.1	318	53 S	1 460		568	174	8 540	4
5	9.4	890	221 S	17 000	11.7	313	42 S	1 140		508	176	7 720	5
6	9.4	854	168 S	12 400	10.0	296	36 S	921		483	173	7 220	6
7	9.4	817	108 S	7 620	11.7	288	47 S	1 170		511	166	7 330	7
8	8.9	832	120 S	8 630	15.0	297	148 S	3 800	3.3	492	159 S	6 760	8
9	8.9	768	170 S	11 300	12.8	300	318 S	8 240		454	152	5 960	9
10	10.0	694	143 S	8 570	11.7	282	150 S	3 650	2.8	429	147 S	5 450	10
11	9.8	634	136 S	7 450		269	56	1 300		409	141	4 980	11
12	10.6	574	76 S	3 770		272	31	729		387	135	4 510	12
13	10.0	538	63 S	2 930	8.9	268	28 S	648	2.8	368	129 S	4 100	13
14	10.0	570	78 S	3 840		266	33	758		349	121	3 650	14
15	10.6	617	146 S	7 780		265	41	939		339	116	3 400	15
16	10.6	607	86 S	4 510		260	51	1 150		343	110	3 260	16
17	10.6	563	60 S	2 920	8.9	258	62 S	1 380	1.7	331	104 S	2 970	17
18	10.0	518	79 S	3 540		295	68	1 730		313	99	2 680	18
19	10.6	485	96 S	4 020		326	60	1 690		303	94	2 460	19
20	10.6	495	211 S	9 020		294	44 S	1 120		293	88	2 230	20
21	10.6	491	162 S	6 870		275	33	784	1.7	283	82 S	2 000	21
22	10.0	469	56 S	2 270		268	30	695		266	77	1 770	22
23	11.1	458	50 S	1 980		257	33	733		251	71	1 540	23
24	11.1	436	72 S	2 710	8.9	267	42 S	969	1.7	242	65 S	1 360	24
25	11.7	419	88 S	3 190		303	61	1 600		241	58	1 210	25
26	11.7	417	75 S	2 700		310	85	2 280		239	51	1 050	26
27	10.0	402	79 S	2 740	7.8	376	115 S	3 740		236	45	918	27
28	10.0	385	74 S	2 460		455	143	5 620	0.6	237	43 S	881	28
29	11.1	373	87 S	2 800		432	151	5 640		228	44	867	29
30	12.2	364	86 S	2 700		402	142	4 930		216	44	821	30
31	14.4	372	117 S	3 760	7.8	379	131 S	4 290					31
TOTAL		18 616		209 780		9 604		73 166		10 734		114 017	TOTAL
MEAN		601		6 770		310		2 360		358		3 800	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		216	44	821		172				71.0 B			1
2	5.5	217	44 S	825		166				70.0 B			2
3		212	42	769		164				69.5 B			3
4		204	34	599		166				70.0 B			4
5		201	24	417		155				70.5 B			5
6	0.6	201	14 S	243		141				71.0 B			6
7		201	12	208		131 B				71.0 B			7
8	0.6	195	11 S	185		122 B				70.0 B			8
9		189	13	212		116 B				68.5 B			9
10		195	15	253		110 B				67.0 B			10
11		274	19	450		104 B				67.0 B			11
12	0.6	346	23 S	688		102 B				67.5 B			12
13		341	23	678		101 B				67.5 B			13
14		387	21	702		99.0 B				66.5 B			14
15		372	19	611		99.0 B				65.0 B			15
16	0.6	345	17 S	507		96.5 B				64.0 B			16
17		305	17	448		94.0 B				63.0 B			17
18		272	17	400		91.0 B				62.0 B			18
19	0.6	279	15 S	362		87.0 B				61.0 B			19
20		261	14	316		84.5 B				60.5 B			20
21		244	13	274		81.0 B				60.0 B			21
22		242	12	251		79.0 B				60.0 B			22
23	0.6	237	11 S	225		78.0 B				60.5 B			23
24		229	12	237		77.5 B				60.5 B			24
25		221	17	325		77.0 B				60.5 B			25
26	0.6	212	21 S	385		77.0 B				60.5 B			26
27		206	29	516		76.0 B				61.0 B			27
28		196	35	593		76.0 B				61.5 B			28
29	0.1	184	39 S	620		76.0 B				61.0 B			29
30		183	36	569		74.0 B				60.0 B			30
31		181	29	454						59.5 B			31
TOTAL		7 548		14 143		3 172.5				2 007.5			TOTAL
MEAN		243		456		106				64.8			MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)	SUSPENDED SEDIMENT LOAD(t/d)
MAXIMUM DAILY 1 220 ON JUN 02	MAXIMUM DAILY 163 000 ON JUN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 02 38 N
LONG 129 56 45 W
DRAINAGE AREA 18 800 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

SEDIMENT DATA PARTIALLY CONTRIBUTED BY BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

BRITISH COLUMBIA

STIKINE RIVER ABOVE GRAND CANYON - STATION NO. 08CB001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 19	09:09	308	1.5	445 R	25	31	44	60	74	83	89	93	97	100		BHW
MAY 19	11:00	308	1.5	428 K	25	33	45	58	71	81	88	92	97	100		BHW
MAY 20	06:25	324 H	2.8	362 K	14	25	36	53	66	78	86	94	99	100		BHW
MAY 26	06:30	216 H	2.8	149 K	46	58	80	90	95	98	99	100				BHW
MAY 29	06:15	438 H	6.1	402 K	12	20	30	41	52	64	80	92	99	100		BHW
MAY 30	06:40	600 H	7.2	867 K	12	15	22	30	38	53	71	87	96	100		BHW
MAY 31	06:25	767 H	8.9	928 K	10	15	21	29	37	48	62	100				BHW
JUN 01	06:20	911 H	6.7	1 010 K	8	11	15	18	20	24	29	100				BHW
JUN 02	06:20	1 060 H	6.7	1 220 K	4	7	10	14	17	20	26	100				BHW
JUN 03	06:15	1 210 H	6.1	1 060 K	7	11	17	22	28	37	50	72	94	100		BHW
JUN 04	05:45	1 310 H	6.1	1 010 K	7	11	14	17	18	21	27	100				BHW
JUN 05	06:00	1 230 H	4.4	908 K	9	12	18	22	27	33	41	100				BHW
JUN 08	05:30	1 110 H	7.2	391 K	11	16	23	29	34	41	52	100				BHW
JUN 11	05:30	1 530 H	7.2	975 K	10	15	21	29	38	50	63	100				BHW
JUN 12	06:30	1 590 H	7.8	1 150 K	11	14	18	22	28	35	44	100				BHW
JUN 13	07:15	1 640 H	7.2	1 170 K	8	11	15	19	24	30	37	100				BHW
JUN 16	14:40	1 420	7.8	325 R	23	29	40	51	60	69	78	87	97	100		BHW
JUN 20	05:30	1 510 H	8.3	549 K	13	19	25	32	38	46	58	72	93	100		BHW
JUN 22	06:30	1 230 H	8.3	436 K	12	19	29	35	42	49	62	77	92	100		BHW
JUN 29	07:30	992 H	10.6	254 K	15	20	33	42	47	56	67	82	97	100		BHW
AUG 09	19:00	300 H	12.8	356 K	55	69	76	88	95	97	98	99	100			BHW
SEP 03	14:30	570 H	8.8	638 K	3	10	16	22	31	41	54	69	84	100		BHW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

BRITISH COLUMBIA

SUKUNKA RIVER ABOVE CHANBERLAIN CREEK - STATION NO. 07FB007

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		2.11 B				1.93 B				1.44 B			1
2		2.02 B				1.99 B				1.50 B			2
3		1.98 B				2.02 B				1.55 B			3
4		2.05 B				2.10 B				1.60 B			4
5		2.14 B				2.12 B				1.62 B			5
6		2.23 B				2.09 B				1.61 B			6
7		2.22 B				2.01 B				1.58 B			7
8		2.22 B				1.97 B				1.57 B			8
9		2.30 B				1.94 B				1.58 B			9
10		2.38 B				1.92 B				1.60 B			10
11		2.44 B				1.91 B				1.62 B			11
12		2.50 B				1.87 B				1.61 B			12
13		2.51 B				1.79 B				1.58 B			13
14		2.51 B				1.73 B				1.54 B			14
15		2.40 B				1.72 B				1.49 B			15
16		2.30 B				1.73 B				1.45 B			16
17		2.32 B				1.80 B				1.45 B			17
18		2.31 B				1.86 B				1.49 B			18
19		2.18 B				1.90 B				1.55 B			19
20		2.01 B				1.84 B				1.61 B			20
21		1.97 B				1.75 B				1.70 B			21
22		1.91 B				1.66 B				1.74 B			22
23		1.84 B				1.55 B				1.73 B			23
24		1.81 B				1.47 B				1.71 B			24
25		1.87 B				1.40 B				1.67 B			25
26		1.90 B				1.38 B				1.64 B			26
27		1.90 B				1.37 B				1.59 B			27
28		1.89 B				1.38 B				1.54 B			28
29		1.88 B								1.52 B			29
30		1.89 B								1.50 B			30
31		1.90 B								1.51 B			31
TOTAL		65.89				50.20				48.89			TOTAL
MEAN		2.13				1.79				1.58			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1.54 B				14.1	60	73.1	5.0	182	206 S	3 240	1
2		1.57 B				15.1	61	79.6		179	145	2 240	2
3		1.56 B				16.0	61	84.3	6.0	169	94 S	1 370	3
4		1.53 B				15.7	62	84.1		181	69	1 080	4
5		1.52 B				16.0	65	89.9		154	55	732	5
6		1.52 B				19.4	69	116		110	45	428	6
7		1.53 B				25.9	74	166		86.6	31	232	7
8		1.59 B				33.0	79	225	5.0	83.6	22 S	159	8
9		1.60 B				38.0	84	276		102	36	317	9
10		1.60 B				44.7	94	363	7.0	120	77	798	10
11		1.58 B				56.2	102	495		125	101	1 090	11
12		1.59 B			4.0	63.2	104 S	568		130	88	988	12
13		1.60 B				62.7	104	563		128	73	807	13
14		1.58 B				58.6	105	532		132	57	650	14
15		1.57 B				64.4	110	612	7.0	112	43 S	416	15
16		1.57 B				79.8	135	931					
17		1.53 B				93.7	187	1 510	11.0	94.4	32	261	16
18		1.52 B			3.0	116	232 S	2 330		87.8	24 S	182	17
19		1.51 B				97.5	140	1 180		88.6	20	153	18
20		1.50 B			4.0	80.1	43 S	298		89.7	19	147	19
21		1.53 B				87.2	22	166		90.6	19	149	20
22		1.67				89.2	29	223		83.4	18	130	21
23		2.70				89.4	47	363	8.0	69.6	18 S	108	22
24		3.25				101	102	890		54.4	15	70.5	23
25		3.90				132	117	1 330	9.5	49.9	13 S	56.0	24
26		5.52			5.5	97.4	81 S	682		48.3	12	50.1	25
27		6.81				79.9	51	352		45.7	12	47.4	26
28		9.06			6.0	77.2	33 S	220		47.7	11	45.3	27
29		12.4				91.5	49	387	11.0	42.9	11	40.8	28
30		13.3				118	92	938		37.5	10 S	32.4	29
31						155	160	2 140		41.3	10	35.7	30
													31
TOTAL		91.25			2	127.9		18 267.0		2 966.0		16 055.2	TOTAL
MEAN		3.04				68.6		589		98.9		535	MEAN

BRITISH COLUMBIA

SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK - STATION NO. 07FB007

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	12.0	38.7	9 S	30.1		27.3	4	9.43		16.2	2	2.80	1
2		40.4	9	31.4		27.4	4	9.47		25.5	8	17.6	2
3		38.0	9	29.5		29.1	4	10.1		21.6	5	9.33	3
4		53.3	9	41.8		25.7	3	6.66		17.7	4	6.13	4
5		64.5	13	72.4	10.0	22.5	3 S	5.83		17.0	3	4.41	5
6	10.0	58.5	9 S	45.5		23.3	3	6.04		16.6	4	5.79	6
7		59.4	8	41.1		21.4	3	5.55		46.9	29	182	7
8		50.2	8	34.7		18.9	3	4.90		83.8	75	543	8
9		41.9	8	29.0		17.0	3	4.41		82.3	68 S	484	9
10		36.4	8	25.2		16.1	3	4.17	8.0	70.2	60	364	10
11		31.9	8	22.0		19.0	2	3.28		57.2	53	262	11
12		28.3	8	19.6		22.4	2	3.87		47.5	46	189	12
13		26.3	8	18.2	10.0	20.2	2 S	3.49		38.4	40	133	13
14	11.0	68.9	74 S	441		18.7	2	3.23		32.5	33	92.7	14
15		217	436 S	8 170		17.8	2	3.08		28.1	27	65.6	15
16		119	313	3 080		21.8	2	3.77		25.1	22	47.7	16
17		77.6	202	1 350		33.6	7	20.3		22.7	18	35.3	17
18		60.0	104	539		32.0	6	16.6		19.4	14	23.5	18
19		51.1	45	199		26.6	3	6.88		17.1	10	14.8	19
20	8.0	46.1	15 S	59.7	8.5	23.4	3 S	6.07		16.0	7	9.68	20
21		48.7	12	50.5		21.3	3	5.52		18.4	4	4.98	21
22	8.0	132	20 S	228		19.8	3	5.13	10.0	13.7 A	1 S	1.18	22
23		111	15	144		17.5	3	4.54		12.1 E	1	1.05	23
24		81.5	11	77.5		15.4	3	3.99		11.1 E	1	0.96	24
25		64.2	10	55.5		15.2	2	2.63		10.6 E	1	0.92	25
26		53.0	8	36.6		14.7	3	3.81		10.5 E	2	1.81	26
27	10.0	44.1	7 S	26.7		14.5	2	2.51		10.0 E	2	1.73	27
28		37.8	6	19.6		14.9	2	2.57		12.2 E	5	5.27	28
29	12.0	32.5	5 S	14.0		13.2	2	2.28		15.7 E	6	8.14	29
30		28.8	5	12.4		12.8	2	2.21		14.5 E	2	2.51	30
31		25.9	5	11.2		12.8	2	2.21					31
TOTAL		1 862.0		14 954.8		636.1		174.49		820.6		2 440.83	TOTAL
MEAN		60.1		482		20.5		5.63		27.4		81.4	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		13.6 E	2	2.35		15.9				5.61 B			1
2		13.4 E	2	2.32		14.1				5.03 B			2
3		13.2 E	2	2.28		12.9				4.68 B			3
4		12.5 E	2	2.16		13.0				4.43 B			4
5		11.6 E	2	2.00		13.3				4.42 B			5
6		10.9 E	2	1.88		12.3				4.40 B			6
7		12.5 E	2	2.16		11.0				4.41 B			7
8		14.7 E	2	2.54		9.86				4.80 B			8
9		14.0 E	2	2.42		9.18				5.15 B			9
10		13.5 E	2	2.33		9.30				4.83 B			10
11		16.3 E	2	2.82		8.02 B				4.95 B			11
12	3.5	19.3 A	2 S	3.34		7.35 B				5.30 B			12
13		18.1	2	3.13		7.20 B				5.40 B			13
14		16.2	2	2.80		7.41 B				5.00 B			14
15		14.9	2	2.57		7.40 B				4.50 B			15
16		16.6	2	2.87		6.80 B				4.40 B			16
17		16.2	2	2.80		6.12 B				4.33 B			17
18		16.1	2	2.44		5.60 B				3.88 B			18
19		12.6	3	3.27		5.38 B				3.55 B			19
20		11.5	3	2.98		5.37 B				3.50 B			20
21		10.8	4	3.73		5.48 B				3.61 B			21
22	3.0	11.6	5 S	5.01		5.65 B				3.60 B			22
23		16.4	6	8.50		6.00 B				3.80 B			23
24		16.2	6	8.40		5.95 B				4.20 B			24
25		17.6	6	9.12		5.47 B				4.25 B			25
26		19.0	6	9.85		5.62 B				3.97 B			26
27		22.3	5	9.63		6.20 B				4.18 B			27
28		23.7	4	8.19		6.70 B				4.45 B			28
29		22.3	4	7.71		6.78 B				4.68 B			29
30		19.6	3	5.08		6.10 B				4.70 B			30
31		17.6	2	3.04						4.63 B			31
TOTAL		482.8		129.72		247.44				138.64			TOTAL
MEAN		15.6		4.18		8.25				4.47			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 10 14 N
LONG 121 45 30 W
DRAINAGE AREA 927 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK - STATION NO. 07FB007

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUL 15	14:11	7 480	10.0	408 E	12	23	40	53	67	80	90	96	99	100		BNW
JUL 15	14:15	7 480	10.0	428 E	15	23	34	51	65	79	91	97	98	100		BNW

E - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL S - SAMPLES COLLECTED IN SEVERAL VERTICALS

BRITISH COLUMBIA

SUSUNKA RIVER NEAR THE MOUTH - STATION NO. 07FB003

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		6.98 B				6.39 B				4.78 B			1
2		6.55 B				6.50 B				4.92 B			2
3		6.58 B				6.70 B				5.05 B			3
4		6.85 B				6.90 B				5.20 B			4
5		7.20 B				7.00 B				5.32 B			5
6		7.22 B				6.90 B				5.30 B			6
7		7.25 B				6.70 B				5.24 B			7
8		7.70 B				6.45 B				5.10 B			8
9		8.00 B				6.38 B				5.05 B			9
10		8.38 B				6.38 B				5.15 B			10
11		8.45 B				6.33 B				5.25 B			11
12		8.55 B				6.00 B				5.28 B			12
13		8.60 B				5.80 B				5.25 B			13
14		8.28 B				5.70 B				5.00 B			14
15		7.95 B				5.65 B				4.86 B			15
16		8.00 B				5.70 B				4.72 B			16
17		8.00 B				5.82 B				4.70 B			17
18		7.50 B				6.02 B				4.83 B			18
19		7.16 B				6.15 B				5.00 B			19
20		6.90 B				6.08 B				5.18 B			20
21		6.60 B				5.75 B				5.40 B			21
22		6.30 B				5.40 B				5.53 B			22
23		6.10 B				5.02 B				5.42 B			23
24		6.00 B				4.80 B				5.35 B			24
25		6.10 B				4.55 B				5.10 B			25
26		6.28 B				4.48 B				5.00 B			26
27		6.25 B				4.45 B				4.91 B			27
28		6.15 B				4.50 B				4.79 B			28
29		6.10 B								4.68 B			29
30		6.15 B								4.60 B			30
31		6.25 B								4.59 B			31
TOTAL		230.06				164.50				156.47			TOTAL
MEAN		7.10				5.88				5.05			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		4.60 B				27.8	80	192	7.0	390	474 S	16 000	1
2		4.66 B				28.0	80	194		395	426	14 500	2
3		4.75 B				30.0	79	205	7.0	364	296 S	9 310	3
4		4.78 B				30.7	80	212		388	225	7 540	4
5		4.70 B				28.4	81	199		356	188	5 780	5
6		4.65 B				34.2	88	260		266	139	3 190	6
7		4.65 B				53.6	112	519		203	101	1 770	7
8		4.73 B				75.6	143	934	6.0	186	80 S	1 290	8
9		4.85 B				86.0	172	1 280	5.0	216	109 S	2 030	9
10		4.95 B				99.1	199	1 700	8.0	256	159 S	3 520	10
11		4.92 B			5.5	119	220 S	2 260		273	202	4 760	11
12		4.82 B				137	223	2 640		291	177	4 450	12
13		4.80 B				140	223	2 700		282	140	3 410	13
14		4.87 B				135	205	2 390		279	109	2 630	14
15		4.81 B				143	189	2 340	9.0	240	81 S	1 680	15
16		4.80 B				179	191	2 950		198	59	1 010	16
17		4.82 B				213	216	3 980	10.0	179	48 S	742	17
18		4.75 B			4.0	262	304 S	6 880		180	44	684	18
19		4.65 B				246	239	5 080		178	41	631	19
20		4.62 B			5.0	187	108 S	1 740		177	38	581	20
21		4.68 B				189	66	1 080		170	35	514	21
22		4.85 B				196	58	982	11.0	141	33 S	402	22
23		5.80 B				200	64	1 110		111	29	278	23
24		8.80 B				199	75	1 290	12.0	97.9	23 S	195	24
25		10.5 B				288	233	5 800		94.2	20	163	25
26		13.5 B			6.0	228	125 S	2 460		92.1	20	159	26
27		17.8 B				183	58	917		91.2	19	150	27
28		22.0			8.0	168	48 S	680		86.3	17	127	28
29		28.3				189	80	1 310	14.0	75.9	16 S	105	29
30		33.2				252	160	3 480		73.9	15	95.8	30
31						336	288	8 360					31
TOTAL		244.61				4 678.4		66 124		6 330.5		87 696.8	TOTAL
MEAN		8.15				151		2 130		211		2 920	MEAN

SUKUNKA RIVER NEAR THE MOUTH - STATION NO. 07FB003

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	15.0	70.8	16 S	97.9		62.0	18	96.4		33.4	6	17.3	1
2		74.1	17	109		65.5	23	130		43.7	9	34.0	2
3		72.6	16	100		80.4	31	215		47.0	11	48.7	3
4		104	27	243		74.7	33	213		40.2	7	28.3	4
5		137	77	911	13.5	63.3	27 S	148		38.4	6	19.9	5
6		128	65	696		59.0	23	117		37.7	6	19.5	6
7	12.0	120	48 S	498		57.0	20	98.5		47.8	11	45.4	7
8		105	41	372		51.1	17	75.1		118	78	795	8
9		91.4	36	284		45.4	14	54.9		145	100 S	1 250	9
10		79.4	30	206		41.4	12	42.9	10.0	129	82	914	10
11		69.1	24	143		41.6	10	35.9		110	66	627	11
12		61.7	18	96.0		44.6	8	30.8		93.4	52	420	12
13	16.0	56.6	11 S	53.8	12.0	45.1	7 S	27.3		81.0	41	287	13
14		180	288	4 480		42.3	7	25.6		73.2	31	196	14
15		704	2 070	126 000		42.1	7	25.5		67.1 A	25	145	15
16		348	1 470	44 200		43.9	7	26.6		60.0 E	19	98.5	16
17		212	844	15 500		73.5	16	102		55.0 E	14	66.5	17
18		156	460	6 200		92.6	24	192		49.5 E	12	51.3	18
19		126	222	2 420		74.3	14	89.9		44.5 E	9	34.6	19
20	12.0	109	149 S	1 400	12.0	61.8	8 S	42.7		40.6 E	7	24.6	20
21		105	144	1 310		55.2	7	33.4		37.0 E	5	16.0	21
22	10.0	256	620 S	13 700		53.4	7	32.3	10.0	33.2 E	2 S	5.78	22
23		265	611	14 000		48.8	7	29.5		29.8 E	2	5.15	23
24		189	373	6 090		43.0	7	26.0		26.4 A	2	4.56	24
25		146	201	2 540		40.3	7	24.4		25.3	2	4.37	25
26		119	67	689		40.0	7	24.2		25.2	2	4.35	26
27	14.5	99.3	27 S	232		38.8	7	23.5		24.6	2	4.25	27
28		86.8	23	172		41.3	7	25.0		34.1	3	8.84	28
29	14.5	76.2	18 S	119		38.2	7	23.1		44.9	7	27.2	29
30		67.2	16	92.9		36.0	7	21.8		38.7	4	13.4	30
31		61.1	16	84.5		34.1	7	20.6					31
TOTAL		4 471.3		243 039.1		1 630.7		2 072.9		1 673.7		5 208.46	TOTAL
MEAN		144		7 840		52.6		66.9		55.8		174	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		34.9	2	6.03		51.4				15.4 B			1
2		34.1	2	5.89		46.0				14.8 B			2
3		32.7	2	5.65		42.5				13.1 B			3
4		30.9	2	5.34		40.8				11.7 B			4
5		28.6	2	4.94		40.0				11.8 B			5
6	6.0	27.9	2 S	4.82		37.7				11.6 B			6
7		37.4	2	6.46		35.0				11.5 B			7
8		40.3	2	6.96		32.9				11.7 B			8
9		36.8	2	6.36		32.4				11.9 B			9
10		36.0	2	6.22		30.0 B				11.7 B			10
11		47.3	3	12.3		26.2 B				12.0 B			11
12		57.0	6	29.5		24.7 B				12.2 B			12
13		50.5	5	21.8		24.5 B				12.1 B			13
14		45.3	4	15.7		25.0 B				11.2 B			14
15		41.8	4	14.4		24.3 B				10.2 B			15
16		43.5	4	15.0		22.5 B				10.0 B			16
17		50.8	4	17.6		20.0 B				9.00 B			17
18		45.3	4	15.7		17.0 B				8.45 B			18
19		42.0	4	14.5		15.1 B				8.00 B			19
20		38.5	4	13.3		15.0 B				8.00 B			20
21		35.2	4	12.2		15.4 B				8.30 B			21
22	3.5	35.6	4 S	12.3		16.2 B				8.32 B			22
23		48.3	4	16.7		16.3 B				8.50 B			23
24		56.4	4	19.5		15.8 B				9.20 B			24
25		67.9	6	35.2		15.5 B				9.20 B			25
26		82.0	12	85.0		16.2 B				8.60 B			26
27		81.7	10	70.6		17.2 B				8.70 B			27
28		78.0	4	27.0		17.6 B				9.40 B			28
29		73.2	3	19.0		17.5 B				10.1 B			29
30		63.1	3	16.4		16.5 B				10.3 B			30
31		57.6	2	9.95						10.2 B			31
TOTAL		1 480.6		552.32		767.2				326.77			TOTAL
MEAN		47.8		17.8		25.6				10.5			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 32 34 N
LONG 121 37 28 W
DRAINAGE AREA 2 510 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BRITISH COLUMBIA

SUKUNKA RIVER NEAR THE MOUTH - STATION NO. 07FB003

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUN 01	14:08	13 800 H	7.0	575 K	7	12	21	36	48	62	77	90	98	100		BNW
JUN 03	14:09	12 900 H	7.0	309 K	6	12	23	38	55	73	90	100				BNW
JUL 22	15:24	3 510 H	10.0	858 K	17	23	33	44	57	72	92	100				BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

MANITOBA

ANTLER RIVER NEAR MELITA - STATION NO. 05NF002

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0 B	0	0		0 B	0	0		0 B	0	0	1
2		0 B	0	0		0 B	0	0		0 B	0	0	2
3		0 B	0	0		0 B	0	0		0 B	0	0	3
4		0 B	0	0		0 B	0	0		0 B	0	0	4
5		0 B	0	0		0 B	0	0		0 B	0	0	5
6		0 B	0	0		0 B	0	0		0 B	0	0	6
7		0 B	0	0		0 B	0	0		0 B	0	0	7
8		0 B	0	0		0 B	0	0		0 B	0	0	8
9		0 B	0	0		0 B	0	0		0 B	0	0	9
10		0 B	0	0		0 B	0	0		0 B	0	0	10
11		0 B	0	0		0 B	0	0		0 B	0	0	11
12		0 B	0	0		0 B	0	0		0 B	0	0	12
13		0 B	0	0		0 B	0	0		0 B	0	0	13
14		0 B	0	0		0 B	0	0		0 B	0	0	14
15		0 B	0	0		0 B	0	0		0 B	0	0	15
16		0 B	0	0		0 B	0	0		0 B	0	0	16
17		0 B	0	0		0 B	0	0		0 B	0	0	17
18		0 B	0	0		0 B	0	0		0 B	0	0	18
19		0 B	0	0		0 B	0	0		0 B	0	0	19
20		0 B	0	0		0 B	0	0		0 B	0	0	20
21		0 B	0	0		0 B	0	0		0 B	0	0	21
22		0 B	0	0		0 B	0	0		0 B	0	0	22
23		0 B	0	0		0 B	0	0		0 B	0	0	23
24		0 B	0	0		0 B	0	0		0 B	0	0	24
25		0 B	0	0		0 B	0	0		0 B	0	0	25
26		0 B	0	0		0 B	0	0		0 B	0	0	26
27		0 B	0	0		0 B	0	0		0 B	0	0	27
28		0 B	0	0		0 B	0	0		0 B	0	0	28
29		0 B	0	0						0 B	0	0	29
30		0 B	0	0						0 B	0	0	30
31		0 B	0	0						0 B	0	0	31
TOTAL		0		0		0		0		0		0	TOTAL
MEAN		0		0		0		0		0		0	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.010 B	0	0	11.0	1.96	11 S	1.86		0.262	10	0.23	1
2		0.050 B	0	0	12.0	1.73	10 S	1.49		0.241	10	0.21	2
3		0.010 B	0	0	15.0	1.56	7 S	0.94		0.223	10	0.19	3
4		0.009 B	0	0	14.0	1.44	7 S	0.87		0.230	10	0.20	4
5		0 B	0	0	13.0	1.33	12 S	1.38		0.224	10	0.19	5
6		0 B	0	0	10.0	1.19	5 S	0.51		0.232	10	0.20	6
7		0 B	0	0	8.0	1.09	6 S	0.57		0.229	10	0.20	7
8		0 B	0	0	7.0	0.997	7 S	0.60		0.205	10	0.18	8
9		0.008 B	1	0	7.0	0.915	5 S	0.40	16.0	0.207	10 S	0.18	9
10		0.107 B	3	0.03	7.0	0.859	4 S	0.30		0.237	9	0.18	10
11		0.458 B	8	0.32	8.0	0.785	4 S	0.27		0.271	6	0.14	11
12		0.820 B	16	1.13	10.0	0.698	3 S	0.18	16.0	0.252	4 S	0.09	12
13	2.0	1.54 B	26 S	3.46	11.0	0.658	3 S	0.17		0.238	4	0.08	13
14	4.0	1.98 B	20 S	3.42		0.630	3	0.16		0.224	4	0.08	14
15	5.0	4.30 B	30 S	11.1		0.611	2	0.11		0.202	4	0.07	15
16	4.0	10.3 B	68 S	60.5	11.0	0.589	2 S	0.10		0.212	4	0.07	16
17	4.0	23.4 B	84 S	170		0.566	2	0.10	16.0	0.225	4 S	0.08	17
18	2.0	26.9	59 S	137		0.529	3	0.14		0.209	4	0.07	18
19	6.0	21.9	40 S	75.7	13.0	0.491	3 S	0.13		0.201	4	0.07	19
20	6.0	17.0	31 S	45.5		0.452	2	0.08		0.197	5	0.09	20
21	8.0	12.9	25 S	27.9	14.0	0.428	2 S	0.07		0.176	5	0.08	21
22	14.0	9.02	26 S	20.3		0.419	1	0.04		0.159	5	0.07	22
23	10.0	5.86	22 S	11.1	17.0	0.376	1 S	0.03	18.0	0.164	5 S	0.07	23
24	14.0	4.43	16 S	6.12		0.363	1	0.03		0.174	5	0.08	24
25	9.0	3.48	14 S	4.21	17.0	0.333	1 S	0.03		0.161	5	0.07	25
26	9.0	2.83	14 S	3.42	20.0	0.319	2 S	0.06		0.160	5	0.07	26
27	10.0	2.77	9 S	2.15		0.309	3	0.08		0.162	4	0.06	27
28	11.5	2.51	9 S	1.95	18.0	0.293	3 S	0.08		0.160	4	0.06	28
29	10.0	2.29	10 S	1.98		0.280	4	0.10		0.161	3	0.04	29
30	9.0	2.15	13 S	2.41		0.279	7	0.17		0.136	3	0.04	30
31					15.0	0.266	9 S	0.21					31
TOTAL		157.032		589.70		22.745		11.26		6.134		3.44	TOTAL
MEAN		5.23		19.7		0.734		0.36		0.204		0.11	MEAN

MANITOBA

ANTLER RIVER NEAR MELITA - STATION NO. 05MF002

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.115	3	0.03		0.022	2	0		0	0	0	1
2		0.085	2	0.01		0.003	1	0		0	0	0	2
3		0.056	2	0.01		0.001	1	0		0	0	0	3
4		0.052	2	0.01		0	0	0		0	0	0	4
5		0.040	1	0		0	0	0		0	0	0	5
6		0.030	1	0		0	0	0		0	0	0	6
7		0.004	1	0		0	0	0		0	0	0	7
8		0.002	1	0		0	0	0		0	0	0	8
9		0.001	1	0		0	0	0		0	0	0	9
10		0.012	1	0		0	0	0		0	0	0	10
11		0.009	1	0		0	0	0		0	0	0	11
12		0.003	1	0		0	0	0		0	0	0	12
13		0.001	1	0		0	0	0		0	0	0	13
14		0.001	1	0		0	0	0		0	0	0	14
15		0.169	9	0.13		0	0	0		0	0	0	15
16		0.272	12	0.28		0	0	0		0	0	0	16
17		0.279	11	0.27		0	0	0		0	0	0	17
18		0.274	9	0.21		0	0	0		0	0	0	18
19		0.266	7	0.16		0	0	0		0	0	0	19
20		0.247	4	0.09		0	0	0		0	0	0	20
21		0.225	4	0.08		0	0	0		0	0	0	21
22		0.226	3	0.06		0	0	0		0	0	0	22
23		0.223	3	0.06		0	0	0		0	0	0	23
24		0.209	3	0.05		0	0	0		0	0	0	24
25		0.182	3	0.05		0	0	0		0	0	0	25
26		0.157	3	0.04		0	0	0		0	0	0	26
27		0.141	3	0.04		0	0	0		0	0	0	27
28		0.122	2	0.02		0	0	0		0	0	0	28
29		0.098	2	0.02		0	0	0		0	0	0	29
30		0.072	2	0.01		0	0	0					30
31		0.048	2	0.01		0	0	0					31
TOTAL		3.621		1.68		0.026		0		0		0	TOTAL
MEAN		0.117		0.05		0.001		0		0		0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0	0	0		0	0	0		0 B	0	0	1
2		0	0	0		0	0	0		0 B	0	0	2
3		0	0	0		0	0	0		0 B	0	0	3
4		0	0	0		0	0	0		0 B	0	0	4
5		0	0	0		0	0	0		0 B	0	0	5
6		0	0	0		0	0	0		0 B	0	0	6
7		0	0	0		0	0	0		0 B	0	0	7
8		0	0	0		0	0	0		0 B	0	0	8
9		0	0	0		0	0	0		0 B	0	0	9
10		0	0	0		0	0	0		0 B	0	0	10
11		0	0	0		0 B	0	0		0 B	0	0	11
12		0	0	0		0 B	0	0		0 B	0	0	12
13		0	0	0		0 B	0	0		0 B	0	0	13
14		0	0	0		0 B	0	0		0 B	0	0	14
15		0	0	0		0 B	0	0		0 B	0	0	15
16		0	0	0		0 B	0	0		0 B	0	0	16
17		0	0	0		0 B	0	0		0 B	0	0	17
18		0	0	0		0 B	0	0		0 B	0	0	18
19		0	0	0		0 B	0	0		0 B	0	0	19
20		0	0	0		0 B	0	0		0 B	0	0	20
21		0	0	0		0 B	0	0		0 B	0	0	21
22		0	0	0		0 B	0	0		0 B	0	0	22
23		0	0	0		0 B	0	0		0 B	0	0	23
24		0	0	0		0 B	0	0		0 B	0	0	24
25		0	0	0		0 B	0	0		0 B	0	0	25
26		0	0	0		0 B	0	0		0 B	0	0	26
27		0	0	0		0 B	0	0		0 B	0	0	27
28		0	0	0		0 B	0	0		0 B	0	0	28
29		0	0	0		0 B	0	0		0 B	0	0	29
30		0	0	0		0 B	0	0		0 B	0	0	30
31		0	0	0						0 B	0	0	31
TOTAL		0		0		0		0		0		0	TOTAL
MEAN		0		0		0		0		0		0	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	37	
MAXIMUM DAILY	84	ON APR 17
MINIMUM DAILY	0	ON JAN 01

B - ICE CONDITIONS

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	1.66	
MAXIMUM DAILY	170	ON APR 17
MINIMUM DAILY	0	ON JAN 01

E - SAMPLE(S) COLLECTED THIS DAY

TOTAL SUSPENDED SEDIMENT LOAD 606.84 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 03 34 N
LONG 101 02 56 W

DRAINAGE AREA 3 210 km^2
NATURAL FLOW

MANITOBA

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		13.9 B	37	44.4		12.7 B	20	21.9	0.5	12.8 B	13 S	14.4	1
2		15.0 B	36	46.7	0.5	12.6 B	20 S	21.8		12.3 B	14	14.9	2
3		14.0 B	36	43.5		12.4 B	20	21.4		12.2 B	14	14.8	3
4		13.9 B	35	42.0		12.0 B	19	19.7		12.9 B	15	16.7	4
5		14.4 B	35	43.5		12.5 B	19	20.5		13.2 B	15	17.1	5
6		14.1 B	33	40.2		12.6 B	19	20.7		12.9 B	16	17.8	6
7		14.3 B	32	39.5		12.4 B	19	20.4		12.5 B	17	18.4	7
8	0.5	14.2 B	31 S	38.0		12.1 B	18	18.8		12.3 B	18	19.1	8
9		13.8 B	31	37.0		12.2 B	18	19.0		12.3 B	18	19.1	9
10		13.6 B	32	37.6		12.5 B	18	19.4		12.4 B	17	18.2	10
11		13.4 B	33	38.2		12.3 B	17	18.1					
12		13.0 B	34	38.2		12.0 B	17	17.6		12.2 B	17	17.9	11
13		12.8 B	35	38.7		11.9 B	17	17.5		12.4 B	18	19.3	12
14		13.6 B	35	41.1		12.3 B	16	17.0		12.7 B	18	19.8	13
15		14.0 B	35	42.3		12.5 B	16	17.3		12.6 B	18	19.6	14
16		13.7 B	35	41.4						12.8 B	18	19.9	15
17		13.3 B	34	39.1		12.3 B	15	15.9					
18		13.0 B	33	37.1		12.2 B	15	15.8		13.0 B	18	20.2	16
19		13.6 B	32	37.6	0.5	12.4 B	15 S	16.1		13.3 B	18	20.7	17
20	0.5	14.3 B	31 S	38.3		12.6 B	15	16.3		13.4 B	18	20.8	18
21		14.0 B	31	37.5		12.8 B	15	16.6	0.5	13.6 B	18 S	21.2	19
22		13.1 B	29	32.8		12.7 B	14	15.4		13.9 B	18	21.6	20
23		12.7 B	28	30.7		12.6 B	14	15.2		13.9 B	17	20.4	21
24		13.0 B	27	30.3		12.5 B	14	15.1		13.8 B	15	17.9	22
25		13.2 B	27	30.8		12.5 B	14	15.1		13.8 B	13	15.5	23
26		13.0 B	26	29.2		12.6 B	14	15.2		13.7 B	11	13.0	24
27		12.6 B	25	27.2		12.9 B	13	14.5		13.3 B	10	11.5	25
28		12.8 B	24	26.5		13.1 B	13	14.7		12.9 B	9	10.0	26
29		12.3 B	22	23.4		13.2 B	13	14.8		12.7 B	9	9.88	27
30		11.6 B	22	22.0						13.0 B	8	8.99	28
31		12.4 B	21	22.5					0.5	13.7 B	8 S	9.47	29
										15.9 B	8	11.0	30
										19.1 B	8	13.2	31
TOTAL		416.6		1 117.3		389.4		491.8		411.5		512.34	TOTAL
MEAN		13.4		36.0		12.5		17.6		13.3		16.5	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		18.9 B	8	13.1	10.0	120	377 S	3 910	13.0	93.3	146 S	1 180	1
2		20.3 B	9	15.8	11.0	117	300 S	3 030	15.0	92.0	148 S	1 180	2
3		19.7 B	9	15.3	13.0	122	277 S	2 920	15.0	90.8	152	1 190	3
4		19.7 B	9	15.3	12.0	123	271 S	2 880	15.0	89.7	126 S	977	4
5		20.3 B	10	17.5	12.0	122	284 S	2 990		88.3	113	862	5
6		31.7 B	13	35.6	7.0	124	303 S	3 250	10.0	88.4	117 S	894	6
7		71.3 B	30	185	3.0	124	280 S	3 000	12.0	88.8	152 S	1 170	7
8		80.7 B	47	328	9.0	124	210 S	2 250	11.0	88.0	159 S	1 210	8
9		72.3 B	55	344	8.0	123	172 S	1 830	13.0	88.2	127 S	968	9
10		68.7 B	67	398		123	175	1 860	13.0	87.7	111 S	841	10
11		65.1 B	80	450	10.0	123	188 S	2 000	17.0	86.1	140 S	1 040	11
12		66.0 B	92	525		123	178 S	1 890	16.0	82.8	149 S	1 070	12
13		71.5 B	125	772		123	193 S	2 050	16.0	80.6	147 S	1 020	13
14		77.4 B	160	1 070		122	166 S	1 750	17.0	77.8	154 S	1 040	14
15		80.7 B	219	1 530	12.0	115	196 S	1 950	17.0	73.7	147 S	936	15
16		88.1 B	341	2 600	11.0	116	191 S	1 910	16.0	67.4	140 S	815	16
17		136 B	907	10 700	12.0	116	145 S	1 450	13.0	69.4	161 S	965	17
18		214 B	1 520	28 100	11.0	113	152 S	1 480	15.0	68.8	121 S	719	18
19	3.0	146	1 160 S	14 600	12.0	103	165 S	1 470	13.0	68.4	117 S	691	19
20		129	1 100 S	12 300	13.0	104	164 S	1 470	14.0	67.0	146 S	845	20
21		118	1 070	10 900	13.0	97.6	160 S	1 350	15.0	64.2	154 S	858	21
22	2.0	129	715 S	7 970	13.0	98.7	146 S	1 250	16.0	60.4	156 S	814	22
23	3.0	130	507 S	5 690	17.0	91.7	142 S	1 130	17.0	53.2	156 S	717	23
24	10.0	130	414	4 650	16.0	94.0	123 S	999	16.0	53.4	162 S	747	24
25	9.0	141	495 S	6 030	16.0	94.0	131 S	1 060	17.0	51.9	166 S	744	25
26	8.0	169	675 S	9 860	18.0	93.2	156 S	1 260	17.0	50.3	156 S	678	26
27	9.0	180	643 S	10 000	18.0	91.9	161 S	1 280	16.0	47.3	160 S	654	27
28	15.0	162	492 S	6 890	20.0	92.5	158 S	1 260	17.0	43.2	151 S	564	28
29	8.0	140	459 S	5 550	17.0	93.2	152 S	1 220	17.0	39.1	147 S	497	29
30	9.0	132	442 S	5 040	14.0	94.0	129 S	1 050	17.0	32.0	143 S	395	30
31					14.0	93.8	134 S	1 090	16.0				31
TOTAL		2 928.4		146 594.6		3 414.6		58 289		2 132.2		26 277	TOTAL
MEAN		97.6		4 890		110		1 880		71.1		876	MEAN

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	20.0	30.8	148 S	394	21.0	17.0	92 S	135		12.6	84 S	91.4	1
2	18.0	28.2	149 S	363	22.0	15.9	93	128		12.6	75 S	81.6	2
3	17.0	26.0	146 S	328	25.0	15.3	76 S	100		12.6	60 S	65.3	3
4	22.0	23.6	125 S	255	25.0	14.9	64 S	82.4		12.4	54	57.9	4
5	22.0	21.5	108 S	201	24.0	14.5	68 S	85.2		12.2	52	54.8	5
6	20.0	20.1	120 S	208	26.0	14.1	70 S	85.3		11.7	57 S	57.6	6
7	21.5	19.5	127 S	214	24.0	14.1	64	78.0	17.0	12.1	94	98.3	7
8	19.0	19.1	121 S	200	20.0	13.9	67 S	80.5	18.5	12.7	74 S	81.2	8
9	22.0	18.6	131 S	211	20.0	14.2	65 S	79.7	22.0	12.8	56 S	61.9	9
10	19.0	18.1	150 S	235	21.0	14.8	56 S	71.6	23.0	11.9	61 S	62.7	10
11	22.0	17.9	116 S	179	21.0	15.3	62 S	82.0	20.0	11.4	59 S	58.1	11
12	21.0	17.5	77 S	116	18.0	15.1	99 S	129	17.0	11.4	61 S	60.1	12
13	18.0	17.3	79 S	118	21.0	15.1	93 S	121	15.0	11.2	62 S	60.0	13
14	20.0	16.5	76 S	108	22.0	15.2	94 S	123	13.0	13.2	50 S	57.0	14
15	22.0	16.7	70 S	101	23.0	15.6	90 S	121	13.0	19.6	62 S	105	15
16	23.0	17.2	89 S	132	24.0	15.5	64 S	85.7	14.0	18.8	100 S	162	16
17	17.0	17.2	111 S	165	24.0	15.1	48 S	62.6	13.0	15.1	73 S	95.2	17
18	16.0	18.9	104 S	170	23.0	15.0	44 S	57.0	14.0	17.6	53 S	80.6	18
19	19.0	25.0	115 S	248	24.0	15.0	49 S	63.5	12.0	18.4	54 S	85.8	19
20	19.0	30.8	160 S	426	28.0	14.4	57 S	70.9	12.0	17.9	44 S	68.0	20
21		27.7	176 S	421	24.0	14.5	69 S	86.4	14.0	17.1	45 S	66.5	21
22		25.7	107 S	238	19.0	14.4	76 S	94.6	13.0	18.5	53 S	84.7	22
23		25.5	75 S	165	21.0	14.2	73 S	89.6		19.0	53	87.0	23
24		23.5	102 S	207	19.0	14.4	71 S	88.3	13.0	19.6	40 S	67.7	24
25		20.3	100 S	175	13.0	14.2	68	83.4	12.0	19.2	36	59.7	25
26		18.2	105 S	165	10.0	13.5	57 S	66.5	12.0	20.6	45 S	80.1	26
27		17.2	87 S	129	8.0	13.4	38 S	44.0	9.0	20.3	67 S	118	27
28		16.9	67	97.8	9.0	13.6	38 S	44.7	9.0	21.1	73 S	133	28
29		18.6	93 S	149		13.1	65 S	73.6	10.0	23.7	55 S	113	29
30	22.5	19.3	97 S	162		12.7	70 S	76.8	8.0	25.3	54 S	118	30
31	24.0	18.6	80	129		12.4	73	78.2					31
TOTAL		652.0		6 409.8		450.4		2 667.5		482.6		2 472.2	TOTAL
MEAN		21.0		207		14.5		86.0		16.1		82.4	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	8.0	24.1	53 S	110		27.3	113	267		21.7 B	117	219	1
2	8.0	22.5	56 S	109	3.0	28.7	132 S	327		24.2 B	128	268	2
3	10.0	21.2	60 S	110	1.0	29.7	124 S	318		26.5 B	136	311	3
4	10.0	19.8	58 S	99.2	0.1	30.3	104 S	272		27.9 B	145	350	4
5	7.0	18.3	62 S	98.0		30.3	134 S	351		28.1 B	147	357	5
6	7.0	20.7	53 S	94.8		26.1 B	144 S	325		26.6 B	140	322	6
7	8.0	18.9	47 S	76.7	0.1	27.5 B	142 S	337		25.2 B	135	294	7
8	8.0	17.8	55 S	84.6	1.0	25.4 B	163 S	358		23.8 B	130	267	8
9		16.6	49	70.3	0.8	24.3 B	107 S	225		22.3 B	125	241	9
10	8.0	16.9	66 S	96.4		25.9 B	83	186		20.0 B	120	207	10
11	7.0	17.1	67 S	99.0		28.9 B	97	209		19.3 B	115	196	11
12	7.0	17.4	71 S	107		20.4 B	91	160		17.6 B	111	169	12
13	9.0	18.4	69 S	110		14.7 B	88	107		16.9 B	108	158	13
14	8.0	20.3	78 S	137		13.8 B	83	99.0	0.5	17.3 B	105 S	157	14
15	8.0	20.1	111 S	193		16.1 B	87	121		17.8 B	104	160	15
16	7.0	20.8	150 S	270		13.7 B	78	92.3		18.3 B	105	166	16
17	10.0	22.3	117 S	225		15.5 B	80	107		19.3 B	109	182	17
18	6.0	21.4	101 S	187		17.8 B	97	149		19.4 B	113	189	18
19	4.0	20.1	116 S	201		18.0 B	103	160		19.0 B	119	195	19
20	3.0	19.7	129 S	220		19.4 B	123	206		18.7 B	128	207	20
21	4.0	19.7	88 S	150		29.1 B	169	425		18.6 B	133	214	21
22	5.0	19.8	80 S	137		30.6 B	160	423		18.9 B	139	227	22
23	7.0	21.5	131 S	243		29.3 B	135	342		19.6 B	148	248	23
24	8.0	23.1	137 S	273		27.3 B	111	262		19.9 B	151	260	24
25	8.0	23.7	138 S	283		23.3 B	95	191		20.5 B	158	280	25
26		26.7	148	316		17.5 B	81	122		20.8 B	160	288	26
27	9.0	25.7	165 S	366		14.7 B	77	97.8		20.7 B	166	297	27
28	8.0	27.2	187 S	439		15.1 B	79	103		20.8 B	171	307	28
29	7.0	27.0	199 S	464		16.4 B	89	126		20.8 B	177	318	29
30	5.0	27.0	192 S	448		19.3 B	104	173		21.0 B	182	330	30
31	5.0	27.0	137 S	320						21.3 B	187	344	31
TOTAL		660.8		6 137.0		672.4		6 641.1		652.8		7 720	TOTAL
MEAN		21.3		198		22.4		221		21.1		249	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	232	
MAXIMUM DAILY	1 530	ON APR 18
MINIMUM DAILY	8	ON MAR 28

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	727	
MAXIMUM DAILY	28 100	ON APR 18
MINIMUM DAILY	8.99	ON MAR 28

TOTAL SUSPENDED SEDIMENT LOAD 265 329.64 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 52 09 N
LONG 97 24 10 W
DRAINAGE AREA 153 000 km^2
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

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ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES									METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 20	18:40	129	M		1 100	K	26	33	51	76	94	98	99	100				
APR 27	10:00	180	M	9.0	638	R	20	31	49	71	88	96	99	100				BNW
APR 30	16:15	132	M	9.0	437	K	21	35	53	75	90	97	99	100				BNW
MAY 07	17:45	124	M	3.0	274	K	25	36	55	78	94	98	99	100				BNW
																		BNW

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		15.1 B	78	102		14.7 B	31	39.4		12.5 B	20	21.6	1
2		15.1 B	76	99.2		14.7 B	30	38.1		12.7 B	20	21.9	2
3		15.1 B	74	96.5		14.6 B	29	36.6		12.5 B	19	20.5	3
4		15.1 B	73	95.2	0.5	14.2 B	27 S	33.1	0.5	12.2 B	19 S	20.0	4
5		15.1 B	71	92.6		13.6 B	27	31.7		12.6 B	19	20.7	5
6		15.1 B	68	88.7		13.8 B	27	32.2		12.1 B	19	19.9	6
7	0.5	15.1 B	67 S	87.4		13.7 B	27	32.0		12.0 B	19	19.7	7
8		15.4 B	66	87.8		13.3 B	27	31.0		11.9 B	19	19.5	8
9		15.4 B	66	87.8		13.7 B	26	30.8		11.9 B	19	19.5	9
10		15.4 B	65	86.5		14.2 B	26	31.9		11.8 B	19	19.4	10
11		15.5 B	65	87.0		14.3 B	26	32.1		12.1 B	19	19.9	11
12		15.5 B	64	85.7		13.3 B	26	29.9		12.2 B	20	21.1	12
13		15.7 B	62	84.1		13.7 B	26	30.8		12.4 B	20	21.4	13
14		15.6 B	61	82.2		14.5 B	26	32.6		12.5 B	21	22.7	14
15		15.7 B	58	78.7		14.8 B	26	33.2		13.2 B	21	24.0	15
16		15.8 B	57	77.8		14.8 B	26	33.2		13.1 B	22	24.9	16
17		15.8 B	55	75.1		14.9 B	25	32.2		12.8 B	23	25.4	17
18		15.8 B	52	71.0	0.5	15.4 B	25 S	33.3		12.9 B	24	26.7	18
19		15.7 B	49	66.5		15.3 B	24	31.7	0.5	12.0 B	24 S	24.9	19
20	0.5	15.7 B	46 S	62.4		15.8 B	24	32.8		11.3 B	24	23.4	20
21		15.6 B	45	60.7		16.0 B	23	31.8		10.9 B	24	22.6	21
22		15.8 B	45	61.4		15.3 B	23	30.4		10.9 B	24	22.6	22
23		16.0 B	43	59.4		14.7 B	23	29.2		10.8 B	24	22.4	23
24		15.7 B	42	57.0		14.6 B	22	27.8		11.2 B	24	23.2	24
25		15.9 B	40	55.0		12.0 B	21	21.8		11.4 B	24	23.6	25
26		15.6 B	40	53.9		12.5 B	21	22.7		11.6 B	23	23.1	26
27		15.4 B	37	49.2		14.6 B	21	26.5		11.5 B	23	22.9	27
28		15.3 B	35	46.3		13.9 B	20	24.0		11.8 B	23	23.4	28
29		15.3 B	36	47.6					0.5	13.3 B	23 S	26.4	29
30		15.0 B	35	45.4						15.8 B	23	31.4	30
31		14.8 B	33	42.2						17.4 B	24	36.1	31
TOTAL		479.1		2 272.3		400.9		872.8		383.3		714.8	TOTAL
MEAN		15.5		73.3		14.3		31.2		12.4		23.1	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		20.0 B	29	50.1	9.0	128	319 S	3 530		88.2	145	1 100	1
2		55.1 B	46	219	13.0	128	308 S	3 410		87.2	140	1 050	2
3		85.0 B	52	382	16.0	128	313 S	3 460	17.0	85.5	136 S	1 000	3
4		71.5 B	69	426	15.0	128	302 S	3 340		83.8	141	1 020	4
5		61.2 B	88	465		127	299	3 280	18.0	82.4	149 S	1 060	5
6		58.4 B	101	510	10.0	126	304 S	3 310	18.0	82.2	169 S	1 200	6
7		52.1 B	114	513	9.0	125	321 S	3 470	16.0	84.0	160 S	1 160	7
8		49.5 B	122	522	9.0	125	306 S	3 300		83.5	142	1 020	8
9		48.0 B	133	552	9.0	123	306 S	3 250		79.8	144	993	9
10		47.2 B	149	608	9.0	123	248 S	2 640	18.0	76.5	149 S	985	10
11		46.0 B	163	648	10.0	126	263 S	2 860	18.0	73.3	154 S	975	11
12		48.4 B	219	916	10.0	125	283 S	3 060	18.0	70.1	155 S	939	12
13		58.7 B	425	2 160	13.0	119	241 S	2 480	19.0	67.6	152 S	888	13
14		101 B	861	7 510	13.0	114	217 S	2 140	19.0	65.7	148 S	840	14
15		207 B	1 900	34 000	12.0	109	221 S	2 080	19.0	64.5	143 S	797	15
16	1.0	239 A	1 790 S	37 000	12.0	105	203 S	1 840	20.0	62.6	185 S	784	16
17	2.0	223 A	1 330 S	25 600	11.0	103	203 S	1 810	17.0	60.5	153 S	800	17
18	2.0	179 A	938 S	14 500	12.0	102	187 S	1 650	16.0	56.4	150 S	731	18
19	3.0	146 A	565 S	7 130		99.5	180	1 550		52.9	148	676	19
20	4.5	135 A	421 S	4 910	12.0	96.7	173 S	1 450	17.0	50.3	143 S	621	20
21	5.0	134	372 S	4 310	15.0	94.0	157 S	1 280	19.0	47.5	135 S	554	21
22	5.0	140	372 S	4 500	16.0	92.2	152 S	1 210	19.0	44.7 A	128 S	494	22
23	6.0	169	590 S	8 610	16.0	91.0	142 S	1 120	19.0	41.4 E	125 S	447	23
24	7.0	207	790 S	14 300	18.0	90.3	155 S	1 210		38.1 E	125	411	24
25	6.0	186	617 S	9 920	18.0	91.0	153 S	1 200	18.0	34.8 A	132 S	397	25
26	7.0	160	517 S	7 150		92.4	154	1 230		31.0	127	340	26
27	8.0	143	417 S	5 150		92.4	158	1 260		28.0	121	293	27
28	9.0	133	364 S	4 180		91.9	157	1 250	20.0	25.7	115 S	255	28
29	10.0	129	336 S	3 740		91.5	155	1 230	19.0	23.9	108 S	223	29
30	9.0	128	347 S	3 840	18.0	90.4	153 S	1 200	21.0	22.4	99 S	192	30
31					15.0	89.5	149 S	1 150					31
TOTAL		3 460.1		204 321.1		3 366.8		67 230		1 794.5		22 245	TOTAL
MEAN		115		6 810		109		2 170		59.8		742	MEAN

MANITOBA

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MN005

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	23.0	21.0	91 S	165		13.8	22	26.2		12.3	27	28.7	1
2	21.0	19.5	85 S	146		13.8	22	26.2		12.3	25	26.6	2
3		19.0	80	131		13.8	22	26.2		12.4	24	25.7	3
4		17.9	77	119		13.8	24	28.6		12.4	24	25.7	4
5	21.0	18.3	83 S	131	22.5	13.7	26 S	30.8		12.1	23	24.0	5
6	22.0	18.3	86 S	136		14.5	26	32.6		11.8	21	21.4	6
7	20.0	16.1	64 S	89.0		14.8	26	33.2		11.6	20	20.0	7
8	20.0	15.3	53 S	70.1		14.5	26	32.6		11.2	21	20.3	8
9	20.0	15.0	52 S	67.4		14.8	25	32.0		11.2	21	20.3	9
10		15.2	50	65.7	21.0	14.9	25 S	32.2		11.2	22	21.3	10
11		15.2	50	65.7	21.0	14.2	28 S	34.4		11.3	21	20.5	11
12		14.6	50	63.1	20.0	13.8	31 S	37.0		11.3	21	20.5	12
13		14.7	49	62.2	20.0	13.8	33 S	39.3	14.0	11.4	22 S	21.7	13
14		14.4	50	62.2	22.0	13.9	34 S	40.8		11.3	20	19.5	14
15		15.7	54	73.2		14.3	42	51.9		11.3	20	19.5	15
16		19.0	84	138	20.0	14.2	48 S	58.9		11.3	20	19.5	16
17		24.3	104	218	20.0	14.3	48 S	59.3		11.2	19	18.4	17
18		21.3	76	140		14.1	46	56.0		11.2	19	18.4	18
19		22.7	64	126		13.4	45	52.1		11.6	18	18.0	19
20	25.0	20.0	47 S	81.2	20.0	13.5	42 S	49.0		12.4 A	18	19.3	20
21	24.0	17.4	29 S	43.6	20.0	13.6	40 S	47.0		12.6 E	17	18.5	21
22	24.0	15.9	21 S	28.8		13.9	41	49.2		12.7 E	16	17.6	22
23	23.0	15.6	22 S	29.7	18.0	13.8	39 S	46.5		12.9 E	16	17.8	23
24	25.0	15.1	21 S	27.4	18.0	13.7	36 S	42.6		13.0 A	15	16.8	24
25		15.1	17	22.2	17.0	13.4	31 S	35.9		12.8	14	15.5	25
26	23.0	15.2	18 S	23.6		13.2	27	30.8		12.1	13 S	13.6	26
27	24.0	14.9	24 S	30.9		13.1	27	30.6		12.5	12 S	13.0	27
28	24.0	14.6	21 S	26.5		13.1	27	30.6		14.6	16 S	20.2	28
29	24.0	14.8	20 S	25.6		12.9	27	30.1		14.7	22 S	27.9	29
30		14.4	21	26.1		12.7	27	29.6		15.0	20 S	25.9	30
31		14.1	22	26.8		12.5	27	29.2					31
TOTAL		525.0		2 461.0		427.8		1 181.4		365.7		616.1	TOTAL
MEAN		16.9		79.4		13.8		38.1		12.2		20.5	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		14.7	13 S	16.5		25.4	26	57.1		27.3 B	125	295	1
2		14.2	12 S	14.7		25.7	26	57.7		26.3 B	123	279	2
3		13.9	12 S	14.4		26.2	26	58.9		24.5 B	121	256	3
4		13.6	13 S	15.3		26.8	27	62.5		23.5 B	120	244	4
5		13.4	10 S	11.6		25.7 E	27	60.0		22.2 B	115	221	5
6		13.3	11 S	12.6		24.5 B	25	52.9		21.3 B	110	202	6
7		13.4	12	13.9		24.6 B	21	44.6		19.9 B	109	187	7
8		13.4	12	13.9		24.7 B	20	42.7		19.3 B	107	178	8
9		13.7	12	14.2	0.5	22.6 B	24 S	46.9		19.1 B	106	175	9
10		15.2	12 S	15.8		19.7 B	31	52.8		19.5 B	101	170	10
11		17.3	12 S	17.9		19.0 B	36	59.1		20.8 B	101	182	11
12		19.2	12 S	19.9		16.7 B	36	51.9		21.0 B	102	185	12
13		21.2	20 S	36.6		17.7 B	39	59.6		22.0 B	101	192	13
14	9.0	20.3 A	20 S	35.1		18.4 B	41	65.2		22.2 B	102	196	14
15		19.5	17	28.6		23.2 B	88	168	0.5	21.4 B	102 S	189	15
16		18.9	12	19.6		32.0 B	123	340		21.2 B	100	183	16
17		18.5	9	14.4		31.4 B	130	353		20.5 B	99	175	17
18		18.1	6 S	9.38		29.1 B	133	334		20.9 B	98	177	18
19		17.9	7 S	10.8		27.1 B	132	309		21.2 B	97	178	19
20		18.9	8	13.1		25.6 B	138	305		21.5 B	96	178	20
21		20.3	13	22.8		26.5 B	135	309		21.6 B	96	179	21
22		20.5	17	30.1		22.8 B	136	268		22.0 B	95	181	22
23		21.1	18	32.8		22.5 B	135	262		22.1 B	95	181	23
24		21.6	17	31.7		24.3 B	137	288		22.2 B	94	180	24
25		21.9	16	30.3		25.4 B	135	296		22.0 B	92	175	25
26		21.7	15	28.1		26.1 B	134	302		22.1 B	91	174	26
27		21.0	15	27.2		28.3 B	131	320		22.6 B	90	176	27
28		21.9	17	32.2		29.3 B	130	329		22.4 B	90	174	28
29		23.4	20	40.4		30.1 B	129	335		22.3 B	89	171	29
30		24.6	24	51.0		30.1 B	127	330		22.6 B	88	172	30
31		25.1	26	56.4						22.6 B	87	170	31
TOTAL		571.7		731.28		751.5		5 619.9		680.1		5 975	TOTAL
MEAN		18.4		23.6		25.1		187		21.9		193	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	275	
MAXIMUM DAILY	1 900	ON APR 15
MINIMUM DAILY	6	ON OCT 18

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	861	
MAXIMUM DAILY	37 000	ON APR 16
MINIMUM DAILY	9.38	ON OCT 18

TOTAL SUSPENDED SEDIMENT LOAD 314 260.68 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 41 54 N
LONG 98 53 56 W
DRAINAGE AREA 152 000 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
						0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 16	09:00	239	H	1.0	1 830 K	14	19	30	47	67	81	85	87	93	96		BHW
APR 20	14:00	135	H	5.0	412 R	12	19	33	52	68	79	85	91	94	96		BHW
APR 24	08:30	26[illegible]	H	7.0	838 K	7	16	26	43	66	81	87	93	95	97		BHW
APR 28	10:45	133	H	10.0	365 R	16	24	41	60	74	81	87	93	97	98		BHW
MAY 03	15:00	128	H	16.0	316 K	20	30	41	62	75	82	87	94	97	99		BHW
MAY 12	08:30	125	H	10.0	288 K	21	30	44	59	72	78	85	95	97	99		BHW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

MANITOBA

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		11.3 B				9.05 B				7.26 B			1
2		11.3 B				8.96 B				7.21 B			2
3		11.3 B				8.87 B				7.18 B			3
4		11.3 B				8.77 B				7.13 B			4
5		11.3 B				8.65 B				7.09 B			5
6		11.3 B				8.57 B				7.07 B			6
7		11.3 B				8.52 B				7.02 B			7
8		11.3 B				8.46 B				6.98 B			8
9		11.3 B				8.40 B				6.95 B			9
10		11.3 B				8.34 B				6.91 B			10
11		11.3 B				8.27 B				6.87 B			11
12		11.3 B				8.19 B				6.84 B			12
13		11.3 B				8.13 B				6.80 B			13
14		11.3 B				8.06 B				6.77 B			14
15		11.2 B				8.00 B				6.73 B			15
16		11.1 B				7.92 B				6.70 B			16
17		11.1 B				7.85 B				6.66 B			17
18		10.9 B				7.80 B				6.62 B			18
19		10.7 B				7.75 B				6.60 B			19
20		10.5 B				7.70 B				6.58 B			20
21		10.4 B				7.66 B				6.54 B			21
22		10.3 B				7.61 B				6.51 B			22
23		10.1 B				7.56 B				6.48 B			23
24		9.95 B				7.52 B				6.46 B			24
25		9.79 B				7.47 B				6.44 B			25
26		9.68 B				7.43 B				6.41 B			26
27		9.53 B				7.38 B				6.37 B			27
28		9.43 B				7.34 B				6.32 B			28
29		9.31 B								6.29 B			29
30		9.20 B								6.26 B			30
31		9.11 B								6.23 B			31
TOTAL		330.50				226.23				208.28			TOTAL
MEAN		10.7				8.08				6.72			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		6.21 B				157				98.3	62	527	1
2		6.19 B				179				94.6	59	482	2
3		6.16 B				188				91.2	57	449	3
4		6.14 B				187				92.3	57	455	4
5		6.12 B				180				91.7	58	460	5
6		6.10 B				174				96.2	61	507	6
7		6.08 B				167				105	66	599	7
8		6.05 B				157				105	69	626	8
9		6.03 B				147				98.5	69	587	9
10		6.01 B				137				95.5	66	545	10
11		5.99 B				129	49 S	586		94.3	61	497	11
12		5.97 B				121				89.9	55	427	12
13		5.95 B				116				83.5	48	346	13
14		5.93 B				115				77.5	41	275	14
15		5.91 B				113				72.6	34	213	15
16		5.89 B				111				69.1	28	167	16
17		5.87 B				109				65.9	23 S	131	17
18		5.86 B				108				63.6	22	121	18
19		5.84 B				112				62.0	24 S	129	19
20		5.83 B				126				62.0	22 S	118	20
21		5.81 B				135				62.7	20	108	21
22		5.79 B				134				61.2	23 S	122	22
23		5.78 B				128				60.7	26	136	23
24		5.85 B				122				76.1	31 S	204	24
25		6.78 B				115				93.7	41	332	25
26		8.51 B				110				95.5	47 S	388	26
27		11.6 B				104				89.1	42 S	323	27
28		17.3				100				80.2	36	249	28
29		57.9				101				72.7	33 S	207	29
30		124				102				66.8	32	185	30
31						101							31
TOTAL		369.45				4 085				2 467.4		9 915	TOTAL
MEAN		12.3				132				82.2		331	MEAN

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		63.0	30 S	163		24.0	23 S	47.7		23.8	15 S	30.8	1
2		59.5	29	149		22.0	22	41.8		23.9	13 S	26.8	2
3		55.4	28 S	134		21.8	20	37.7		24.2	12	25.1	3
4		52.3	26 S	117		24.1	21 S	43.7		24.6	12 S	25.5	4
5		51.0	24	106		28.2	23 S	56.0		24.3	15 S	31.5	5
6		50.3	23 S	100.0		31.3	25	67.6		23.5	15	30.5	6
7		48.7	22	92.6		32.9	25 S	71.1		22.7	14 S	27.5	7
8		47.4	21 S	84.2		37.1	25	80.1	12.0	22.5	13 S	25.3	8
9		46.6	22	88.6		37.6	26	84.5		23.0	12 S	23.8	9
10		44.7	20 S	77.2		36.5	26	82.0		22.9	11	21.8	10
11		42.9	19 S	70.4		34.3	24	71.1		24.5	11 S	23.3	11
12		42.9	19	70.4		32.4	21	58.8		25.9	17 S	38.0	12
13		42.8	21 S	77.7		31.1	19	51.1		26.8	19	44.0	13
14		41.4	21	75.1		29.4	17	43.2		25.7	18	40.0	14
15		39.8	19 S	65.3		28.9	16	40.0		24.3	15 S	31.5	15
16		38.6	18	60.0		33.6	17	49.4		24.4	13 S	27.4	16
17		37.8	18 S	58.8		37.9	18	58.9		24.2	14	29.3	17
18		35.7	18 S	55.5		38.3	21	69.5		23.9	15 S	31.0	18
19		34.0	19	55.8		37.6	22	71.5		23.5	16 S	32.5	19
20		35.2	22 S	66.9		37.0	19 S	60.7		22.7	16	31.4	20
21		35.6	22	67.7		35.7	16 S	49.4		22.3	15 S	28.9	21
22		35.1	21 S	63.7		33.6	16 S	46.4		22.3	14 S	27.0	22
23		33.2	21	60.2		31.3	19	51.4		21.9	13 S	24.6	23
24		31.9	22 S	60.6		29.1	18 S	45.3		20.9	13	23.5	24
25		31.4	21 S	57.0		27.8	16 S	38.4		20.4	12 S	21.2	25
26		31.1	20	53.7		27.0	15 S	35.0		20.9	12	21.7	26
27		29.8	23 S	59.2		26.3	14	31.8		20.4	12	21.2	27
28		28.6	24	59.3		25.2	14 S	30.5		20.2	12	20.9	28
29		27.4	24 S	56.8		24.0	14 S	29.0		20.6	11	19.6	29
30		26.3	23	52.3		23.7	13	26.6		20.2	10	17.5	30
31		25.5	21 S	46.3		23.8	13 S	26.7					31
TOTAL		1 245.9		2 414.3		983.5		1 596.9		691.4		823.1	TOTAL
MEAN		40.2		77.9		30.4		51.5		23.0		27.4	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		20.0				24.5				11.9 B			1
2		21.5				23.7				11.7 B			2
3		23.6				22.4				11.5 B			3
4		25.1				22.1				11.4 B			4
5		25.1				21.6				11.2 B			5
6		24.6				21.1				11.0 B			6
7		24.4				20.8				10.9 B			7
8		24.3				20.3				10.7 B			8
9		24.1				19.8				10.6 B			9
10		24.1				19.5 B				10.5 B			10
11		23.8				19.0 B				10.4 B			11
12		23.7				18.5 B				10.3 B			12
13		24.1				18.1 B				10.2 B			13
14		24.7				17.7 B				10.1 B			14
15		24.8				17.2 B				10.1 B			15
16		24.2				16.8 B				10.0 B			16
17		24.0				16.3 B				9.92 B			17
18		23.7				15.9 B				9.85 B			18
19		22.8				15.4 B				9.78 B			19
20		22.7				15.1 B				9.70 B			20
21		22.6				14.6 B				9.64 B			21
22		22.5				14.2 B				9.59 B			22
23		22.5				13.8 B				9.53 B			23
24		22.5				13.5 B				9.48 B			24
25		22.6				13.3 B				9.43 B			25
26		22.8				13.0 B				9.39 B			26
27		23.0				12.8 B				9.34 B			27
28		23.5				12.5 B				9.30 B			28
29		24.3				12.3 B				9.25 B			29
30		24.6				12.1 B				9.22 B			30
31		24.8								9.13 B			31
TOTAL		731.0				517.9				315.05			TOTAL
MEAN		23.6				17.3				10.2			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 27 50 N
LONG 99 06 00 W
DRAINAGE AREA 6 660 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0 B	0	0	1
2										0 B	0	0	2
3										0 B	0	0	3
4										0 B	0	0	4
5										0 B	0	0	5
6										0 B	0	0	6
7										0 B	0	0	7
8										0 B	0	0	8
9										0 B	0	0	9
10										0 B	0	0	10
11										0 B	0	0	11
12										0 B	0	0	12
13										0 B	0	0	13
14										0 B	0	0	14
15										0 B	0	0	15
16										0 B	0	0	16
17										0 B	0	0	17
18										0 B	0	0	18
19										0 B	0	0	19
20										0 B	0	0	20
21										0 B	0	0	21
22										0 B	0	0	22
23										0 B	0	0	23
24										0 B	0	0	24
25										0 B	0	0	25
26										0 B	0	0	26
27										0 B	0	0	27
28										0.100 B	5	0.04	28
29										0.630 B	10	0.54	29
30										0.588 B	20	1.02	30
31									0.5	0.527 B	25 S	1.14	31
TOTAL										1.845		2.74	TOTAL
MEAN										0.059		0.09	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.045 B	10	0.04		1.06	95	8.70		1.57	47	6.38	1
2		0 B	0	0		0.990	77	6.59		1.00	31	2.68	2
3		0 B	0	0	15.0	1.06	68 S	6.23		0.698	20 S	1.21	3
4		0 B	0	0		1.14	58	5.71		0.563	14	0.68	4
5		0 B	0	0		1.04	49	4.40		0.461	12	0.48	5
6		0 B	0	0		0.834	37	2.67		0.407	12	0.42	6
7		0 B	0	0		0.730	29	1.83		0.376	12 S	0.39	7
8		0 B	0	0	10.0	0.691	19 S	1.13	15.0	0.340	11 S	0.32	8
9		0 B	0	0		0.655	16	0.91		0.323	14	0.39	9
10		0 B	0	0		0.778	66	4.44		0.279	22 S	0.53	10
11		0.260 B	40	0.90		3.04	244	64.1		0.218	20	0.38	11
12	0.5	1.89 B	62 S	10.1	14.0	2.30	158 S	31.4		0.165	17	0.24	12
13	0.1	6.52 B	76 S	42.8		1.61	116	15.9		0.130	14 S	0.16	13
14	1.0	17.3 B	272 S	407		1.24	83	8.89		0.103	12	0.11	14
15	3.5	11.9 B	235 S	242		1.08	75	7.00		0.114	10	0.10	15
16	3.0	7.04	194 S	118		1.61	224	31.2		0.121	12	0.13	16
17		5.13	202	89.5		3.27	723	204		0.149	14 S	0.18	17
18		7.20	209	130	9.0	6.08	1 690 S	888		0.107	10	0.09	18
19	0.1	5.90	202 S	103	8.0	5.42	1 080 S	506		0.086	8	0.06	19
20	2.0	5.15	243 S	108	12.0	3.61	482 S	150		0.118	13	0.13	20
21	3.0	5.31	328 S	150		2.36	205	41.8		0.211	27	0.49	21
22	5.0	8.16	826 S	582	18.0	1.59	72 S	9.89		0.316	48 S	1.31	22
23	6.0	14.0	1 720 S	2 080		1.17	29 S	2.93		0.137	39	0.46	23
24		10.5	1 450	1 320		1.32	56	6.39		0.250	32	0.69	24
25		5.70	1 170	576		0.946	39 S	3.19		0.196	24	0.41	25
26	1.0	3.24	821 S	230		0.838	29	2.10		0.114	18 S	0.18	26
27	10.0	2.23	441 S	85.8		0.644	30	1.67		0.138	20	0.24	27
28	12.0	1.76	273 S	41.5		0.564	27	1.32		0.071	20	0.12	28
29	7.0	1.55	200 S	26.8		0.509	27	1.19		0.051	19	0.08	29
30		1.15	130	12.9		0.720	36	2.24		0.043	18	0.07	30
31						1.76	58	8.82					31
TOTAL		121.935		6 355.54		50.659		2 030.64		8.855		19.11	TOTAL
MEAN		4.06		212		1.63		65.5		0.295		0.64	MEAN

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.037	16	0.05		0.031	9	0.02		0.001	4	0	1
2		0.030	15	0.04		0.230	14	0.28		0.005	2	0	2
3		0.036	14	0.04		0.272	15	0.35		0.006	2	0	3
4		0.031	13	0.03	29.0	0.208	13 S	0.23		0.004	1	0	4
5		0.024	11	0.02		0.128	12	0.13		0	0	0	5
6		0.018	10 S	0.02		0.067	12	0.07		0	0	0	6
7		0.016	9	0.01		0.040	11	0.04		0.001	0	0	7
8		0.010	9	0.01		0.025	11	0.02		0.001	0	0	8
9		0.001	9	0		0.020	10	0.02		0.002	0	0	9
10		0.003	9	0		0.017	5	0.01		0	0	0	10
11		0.001	9	0		0.010	2	0		0.002	0	0	11
12		0.032	12	0.03		0	0	0		0.001	0	0	12
13		0.024	12 S	0.02		0	0	0		0	0	0	13
14		0.021	8	0.01	27.0	0.004	19 S	0.01		0	0	0	14
15		0.023	18	0.02		0.038	38	0.12		0.002	0	0	15
16		0.145	16	0.20		0.036	27	0.08		0.009	0	0	16
17		0.109	13	0.12		0.020	21	0.04		0.013	0	0	17
18		0.088	9	0.07		0.019	17	0.03		0.010	0	0	18
19		0.079	7	0.05		0.016	15	0.02		0.009	2	0	19
20		0.037	7 S	0.02		0.013	13	0.01	10.0	0.007	4 S	0	20
21		0.023	7	0.01		0.002	11	0		0.006	4	0	21
22	18.0	0.023	8 S	0.02		0	11	0		0.006	4	0	22
23		0.026	8	0.02	17.0	0.001	11 S	0		0.005	4	0	23
24		0.027	8	0.02		0.001	10	0		0.012	4	0	24
25		0.035	9	0.03	14.0	0.010	8 S	0.01		0.015	4	0.01	25
26	19.0	0.057	9 S	0.04		0.017	7	0.01		0.011	4	0	26
27		0.044	9	0.03		0.015	7	0.01		0.009	4	0	27
28		0.081	9	0.06		0.011	6	0.01		0.014	4	0	28
29		0.366	9	0.28		0.004	5	0		0.056	4	0.02	29
30		0.178	9	0.14		0	5	0		0.024	4	0.01	30
31		0.066	9	0.05		0	4	0					31
TOTAL		1.687		1.46		1.259		1.52		0.231		0.04	TOTAL
MEAN		0.054		0.05		0.040		0.05		0.008		0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.016	4	0.01									1
2		0.017	4	0.01									2
3		0.019	4	0.01									3
4		0.017	4	0.01									4
5		0.018	4	0.01									5
6		0.015	4	0.01									6
7		0.014	4	0									7
8		0.012	4	0									8
9		0.010	4	0									9
10		0.270	231	5.39									10
11		4.32	863	322									11
12		2.35	424	86.1									12
13		1.08	195	18.2									13
14		0.707	162	9.90									14
15		0.532	158	7.26									15
16		0.488	155	6.54									16
17		0.585	152	7.68									17
18		0.573	149	7.38									18
19		0.499	144	6.21									19
20		0.414	141	5.04									20
21		0.368	136	4.32									21
22		0.347	130	3.90									22
23		0.309	126	3.36									23
24		0.278	121	2.91									24
25		0.251	114	2.47									25
26		0.186	107	1.72									26
27		0.143	101	1.25									27
28		1.25	581	62.7									28
29		8.06	961	669									29
30		3.10	480	107									30
31		1.61	69	9.60									31
TOTAL		27.858		1 349.99									TOTAL
MEAN		0.898		43.5									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

TOTAL SUSPENDED SEDIMENT LOAD 9 761.04 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	527	
MAXIMUM DAILY	1 730	ON APR 23
MINIMUM DAILY	0	ON MAR 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	39.8	
MAXIMUM DAILY	2 880	ON APR 23
MINIMUM DAILY	0	ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 08 30 N
LONG 99 55 20 W
DRAINAGE AREA 311 km^2
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 23	18:00	16.0 H	6.0	1 800 K	28	34	53	74	88	94	97	99	100			BNW
MAY 18	18:30	6.08H	9.0	1 810 K	20	26	63	84	94	99	100					BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

MINK CREEK NEAR SIFTON - STATION NO. 05LJ048

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0 B			1
2										0 B			2
3										0 B			3
4										0 B			4
5										0 B			5
6										0 B			6
7										0 B			7
8										0 B			8
9										0 B			9
10										0 B			10
11										0 B			11
12										0 B			12
13										0 B			13
14										0 B			14
15										0 B			15
16										0 B			16
17										0 B			17
18										0 B			18
19										0 B			19
20										0 B			20
21										0 B			21
22										0 B			22
23										0 B			23
24										0 B			24
25										0 B			25
26										0 B			26
27										0.032 B			27
28										0.219 B			28
29										0.774 B			29
30										0.670 B			30
31										0.600 B			31
TOTAL										2.295			TOTAL
MEAN										0.074			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.544 B				0.228	14	0.28		0.029	4	0.01	1
2		0.097 B				0.211	14	0.26		0.022	4	0.01	2
3		0 B				0.206	15	0.27		0.019	4	0.01	3
4		0 B				0.200	15	0.26		0.017	4	0.01	4
5		0 B			12.0	0.189	15 S	0.24		0.015	4	0.01	5
6		0 B				0.182	14	0.22		0.013	3	0	6
7		0 B				0.158	14	0.19		0.012	3	0	7
8		0 B				0.129	14	0.16		0.010	3	0	8
9		0 B				0.109	14	0.13	15.0	0.009	3 S	0	9
10		0 B				0.109	13	0.12		0.009			10
11		0 B				0.143	13	0.16		0.008			11
12		0.032 B	5	0.01		0.120	12	0.12		0.007			12
13	0.5	1.76 B	14 S	2.13		0.098	12	0.10		0.006			13
14		2.25 B	32	6.22		0.091	11	0.09		0.005			14
15	1.0	2.68 B	89 S	20.6		0.085	11	0.08		0.004			15
16		2.50	82	17.7		0.096	11	0.09		0.004			16
17		2.21	60	11.5		0.123	11	0.12		0.003			17
18		2.23	41	7.90		0.109	11	0.10		0.003			18
19		1.83	24	3.79		0.080	11	0.08		0.003			19
20	5.0	1.58	15 S	2.05		0.078	10	0.07		0.004			20
21		1.29	14	1.56		0.077	10	0.07		0.004			21
22		1.01	14	1.22		0.069	9	0.05		0.004			22
23		0.804	14	0.97		0.060	9	0.05		0.005			23
24		0.642	14	0.78		0.056	8	0.04		0.018			24
25		0.743	14	0.90		0.050	7	0.03		0.022			25
26		0.699	14	0.85		0.040	6	0.02		0.015			26
27		0.485	14	0.59		0.033	6	0.02		0.010			27
28		0.395	13	0.44		0.028	6	0.01		0.009			28
29		0.321	14	0.39		0.024	5	0.01		0.007			29
30		0.265	14	0.32		0.026	5	0.01		0.006			30
31						0.031	5	0.01					31
TOTAL		24.367				3.238		3.46		0.302			TOTAL
MEAN		0.812				0.104		0.11		0.010			MEAN

MANITOBA

NINK CREEK NEAR SIFTON - STATION NO. 05LJ048

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.005				0.022				0.005			1
2		0.906				0.016				0.005			2
3		0.018				0.014				0.004			3
4		0.037				0.013				0.003			4
5		0.052				0.012				0.003			5
6		0.053				0.016				0.002			6
7		0.034				0.014				0.002			7
8		0.022				0.010				0.002			8
9		0.017				0.010				0.001			9
10		0.014				0.008				0.001			10
11		0.012				0.008				0			11
12		0.016				0.007				0			12
13		0.017				0.006				0			13
14		0.014				0.006				0			14
15		0.012				0.006				0			15
16		0.350				0.005				0			16
17		0.234				0.004				0			17
18		0.153				0.003				0			18
19		0.113				0.003				0			19
20	23.0	0.123	2 S	0.02		0.002				0			20
21		0.062				0.001				0			21
22		0.041				0.001				0			22
23		0.036				0.001				0			23
24		0.029			17.0	0.001	2 S	0		0			24
25		0.021				0.001				0			25
26		0.017				0				0			26
27		0.013				0.007				0			27
28		0.013				0.038				0.001			28
29		0.018				0.013				0			29
30		0.024				0.008				0			30
31		0.024				0.006							31
TOTAL		1.600				0.262				0.029			TOTAL
MEAN		0.052				0.008				0.001			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0											1
2		0.005											2
3		0.006											3
4		0.007											4
5		0.007											5
6		0.006											6
7		0.006											7
8		0.006											8
9		0.005											9
10		0.006											10
11		0.008											11
12		0.008											12
13		0.009											13
14		0.029											14
15		0.043											15
16		0.038											16
17		0.043											17
18		0.044											18
19		0.037											19
20		0.032											20
21		0.032											21
22		0.033											22
23		0.031											23
24		0.033											24
25		0.029											25
26		0.027											26
27		0.027											27
28		0.065											28
29		0.303											29
30		0.334											30
31		0.304											31
TOTAL		1.563											TOTAL
MEAN		0.050											MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 25 55 N
LONG 100 01 00 W
DRAINAGE AREA 269 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		8.16 B	8	5.64		7.47 B	7	4.52		7.09 B	6	3.68	1
2		7.96 B	8	5.50		7.70 B	7	4.66		7.13 B	6	3.70	2
3		8.91 B	8	6.16		7.57 B	7	4.58		7.20 B	6	3.73	3
4		8.10 B	9	6.30		7.43 B	7	4.49		7.21 B	6	3.74	4
5		7.82 B	9	6.08		7.46 B	7	4.51		7.19 B	6	3.73	5
6		7.93 B	9	6.17		7.41 B	7	4.48		7.12 B	6	3.69	6
7	0.5	7.58 B	9 S	5.89		7.36 B	7	4.45		7.06 B	6	3.66	7
8		8.26 B	9	6.42		7.22 B	6	3.74		7.12 B	6	3.69	8
9		7.68 B	9	5.97		7.45 B	6	3.86		7.32 B	6	3.79	9
10		8.53 B	9	6.63		7.40 B	6	3.84	0.5	4.66 B	18 S	7.25	10
11		8.34 B	9	6.49	0.5	7.18 B	6 S	3.72		2.27	25	4.90	11
12		8.34 B	9	6.49		7.10 B	6	3.68		2.15	24	4.46	12
13		7.85 B	9	6.10		7.09 B	6	3.68		2.41	23	4.79	13
14		7.77 B	9	6.04		7.32 B	6	3.79		2.17	23	4.31	14
15		8.57 B	8	5.92		7.12 B	6	3.69		2.17	22	4.12	15
16		8.90 B	8	6.15		7.21 B	6	3.74		2.14	21	3.88	16
17		8.44 B	8	5.83		7.22 B	6	3.74		2.21	20	3.82	17
18		8.13 B	8	5.62		7.24 B	6	3.75		2.22	19	3.64	18
19		7.82 B	8	5.41		7.30 B	6	3.78		2.26	19	3.71	19
20		7.70 B	8	5.32		7.25 B	6	3.76		2.27	19	3.73	20
21		7.63 B	8	5.27		7.24 B	6	3.75		2.29	18	3.56	21
22		7.37 B	8	5.09		6.82 B	6	3.54		1.48	15	1.92	22
23		7.89 B	8	5.45		7.04 B	6	3.65		0.402	12	0.42	23
24		8.07 B	8	5.58		7.05 B	6	3.65		0.360	12	0.37	24
25		7.89 B	8	5.45		7.08 B	6	3.67		0.350	12	0.36	25
26		7.92 B	8	5.47		7.01 B	6	3.63		0.350	12	0.36	26
27		7.45 B	8	5.15		7.13 B	6	3.70		0.368	12	0.38	27
28		8.18 B	7	4.95		7.12 B	6	3.69		0.371	12	0.38	28
29		7.46 B	7	4.51						0.385	12	0.40	29
30		7.70 B	7	4.66						0.422	12	0.44	30
31		7.77 B	7	4.70						0.486	12	0.50	31
TOTAL		248.12		176.41		202.99		109.74		98.634		91.11	TOTAL
MEAN		8.00		5.69		7.25		3.92		3.18		2.94	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.420	12	0.44		15.8	17	23.2		14.2	9	11.0	1
2		0.394	12	0.41		15.8	17	23.2		10.8	9	8.40	2
3		0.427	12	0.44		15.7	17	23.1		4.90	9	3.81	3
4		0.443	12	0.46		15.8	16	21.8		4.77	10	4.12	4
5		0.449	12	0.47	10.0	16.0	16 S	22.1		6.74	14	8.15	5
6		0.456	12	0.47		14.3	15	18.5		6.28	19	10.3	6
7		0.456	12	0.47		11.9	14	14.4		1.41	20	2.44	7
8		0.449	12	0.47		15.1	11	14.4		4.32	20	7.46	8
9		0.452	12	0.47		15.1	9	11.7	14.0	4.10	20 S	7.08	9
10		0.450	12	0.47	5.0	12.7	8 S	8.78		3.19	20	5.51	10
11		0.473	12	0.49	6.0	16.0	9 S	12.4		2.55	20	4.41	11
12		0.513	12	0.53	7.0	16.7	13 S	18.8		3.40	20	5.88	12
13		0.573	12	0.59	8.0	16.1	13 S	18.1		4.14	20	7.15	13
14		0.674	12	0.70	9.0	15.5	11 S	14.7		3.09	20	5.34	14
15		0.756	12	0.78	10.0	15.0	11 S	14.3		4.02	20	6.95	15
16		0.286	12	0.30	10.0	15.6	11 S	14.8		2.87	20	4.96	16
17		0.249	12	0.26	10.0	14.9	11 S	14.2		2.39	20	4.13	17
18		0.196	12	0.20	10.0	14.3	9 S	11.1	18.0	3.08	20 S	5.32	18
19		0.165	12	0.17		15.2	9	11.8		2.83	20	4.89	19
20	5.0	0.154	12 S	0.16		17.1	9	13.3		2.09	20	3.61	20
21		0.186	12	0.19		16.7	9	13.0		3.07	20	5.30	21
22		0.314	12	0.33		17.2	9	13.4		5.29	20	9.14	22
23		3.80	15	4.92		17.8	9	13.8		4.13	20	7.14	23
24		11.3	19	18.6		16.5	9	12.8		1.52	20	2.63	24
25		11.6	18	18.0		16.9	9	13.1		3.22	20	5.56	25
26		14.0	18	21.8		17.1	9	13.3		3.24	20	5.60	26
27		15.5	18	24.1		14.9	9	11.6		2.74	20	4.73	27
28		15.6	18	24.3		12.4	9	9.64		2.60	20	4.49	28
29		15.9	18	24.7		13.9	9	10.8		2.66	20	4.60	29
30		15.8	18	24.6		12.9	9	10.0		3.34	20	5.77	30
31						10.5	9	8.16					31
TOTAL		112.435		170.29		471.4		454.28		122.98		175.87	TOTAL
MEAN		3.75		5.68		15.2		14.7		4.10		5.86	MEAN

MANITOBA

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		5.39	20	9.31		1.72	10	1.49		0.420	6	0.22	1
2		6.65	20	11.5		1.44	10	1.24		0.356	6	0.18	2
3		5.45	20	9.42		1.05	10	0.91		0.477	6	0.25	3
4		3.85	20	6.65		1.11	10	0.96		0.303	5	0.13	4
5		3.36	20	5.81		1.32	10	1.14		0.386	5	0.17	5
6		2.33	20	4.03		1.27	10	1.10		0.920	5	0.40	6
7		1.57	20	2.71		0.748	10	0.65		0.518	5	0.22	7
8		2.42	20	4.18		0.179	9	0.14		0.448	5	0.19	8
9		2.67	20	4.61		0.583	9	0.45		0.400	5	0.17	9
10		2.58	20	4.46		1.01	9	0.79		0.433	5	0.19	10
11		2.48	20	4.29		1.73	9	1.35		0.296	4	0.10	11
12		2.22	20	3.84		2.22	9	1.73		0.337	4	0.12	12
13		2.48	20	4.29		0.874	9	0.68		0.148	4	0.05	13
14		3.45	20	5.96		1.62	9	1.26		0.296 E	4	0.10	14
15		2.85	19	4.68		1.18	9	0.92		0.340 E	4	0.12	15
16		2.37	17	3.48		0.796	9	0.62		0.252 E	4	0.09	16
17		2.52	15	3.27		0.993	9	0.77		0.230 E	4	0.08	17
18		3.04	12	3.15		0.928	8	0.64		0.065 E	3	0.01	18
19		3.08	12	3.19		0.636	8	0.44		0.296 E	3	0.08	19
20	23.0	0.356	11 S	0.34		0.692	8	0.48		0.305 E	3	0.08	20
21		0.238	11	0.23		0.816	8	0.56	12.0	0.318 E	3 S	0.08	21
22		1.48	11	1.41		0.595	7	0.36		0.305 E	3	0.08	22
23		0.794	11	0.75		0.655	7	0.40		0.110 E	3	0.03	23
24		0.873	11	0.83	18.0	0.518	7 S	0.31		0.077 E	3	0.02	24
25		0.828	11	0.79		0.453	7	0.27		0.175 E	3	0.05	25
26		1.03	11	0.98		0.386	7	0.23		0.208 E	3	0.05	26
27		0.966	11	0.92		0.355	7	0.21		0.274 E	3	0.07	27
28		1.09	10	0.94		1.56	6	0.81		0.208 E	3	0.05	28
29		0.751	10	0.65		0.478	6	0.25		0.142 E	4	0.05	29
30		1.21	10	1.05		0.525	6	0.27		0.230 E	4	0.08	30
31		0.955	10	0.83		0.851	6	0.44					31
TOTAL		71.331		108.55		29.287		21.87		9.253		3.51	TOTAL
MEAN		2.30		3.50		0.945		0.71		0.308		0.12	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.159 E	4	0.05		0.480	7	0.29		0.540 B	6	0.28	1
2		0.192 E	4	0.07		0.264	7	0.16		0.552 B	6	0.29	2
3		0.208 E	4	0.07	1.0	0.085 B	7 S	0.05		0.605 B	6	0.31	3
4		0.159 E	4	0.05		0.136 B	7	0.08		0.583 B	6	0.30	4
5		0.149 E	4	0.05		0.469 B	7	0.28		0.580 B	6	0.30	5
6		0.162 E	4	0.06		0.531 B	7	0.32		0.564 B	6	0.29	6
7		0.155 E	4	0.05		0.280 B	7	0.17		0.604 B	6	0.31	7
8		0.208 E	4	0.07		0.363 B	7	0.22		0.773 B	6	0.40	8
9		0.230 E	4	0.08		0.427 B	7	0.26		0.944 B	6	0.49	9
10		0.192 E	4	0.07		0.417 B	7	0.25		0.856 B	6	0.44	10
11		0.188 E	5	0.08		0.223 B	7	0.13		0.941 B	6	0.49	11
12		0.182 E	5	0.08		0.198 B	7	0.12		1.06 B	6	0.55	12
13		0.188 E	5	0.08		0.364 B	7	0.22		1.01 B	6	0.52	13
14		0.195 E	5	0.08		0.374 B	7	0.23		1.06 B	6	0.55	14
15		0.192 E	5	0.08		0.375 B	7	0.23	0.5	2.35 B	6 S	1.22	15
16		0.188 E	5	0.08		0.380 B	7	0.23		8.60 B	6	4.46	16
17		0.188 E	5	0.08		0.374 B	7	0.23		8.56 B	6	4.44	17
18		0.185 E	5	0.08		0.377 B	7	0.23		8.60 B	6	4.46	18
19		0.175 E	5	0.08		0.382 B	7	0.23		8.52 B	6	4.42	19
20		0.110 E	5	0.05		0.379 B	7	0.23		8.49 B	6	4.40	20
21		0.015 E	6	0.01		0.403 B	7	0.24		7.90 B	6	4.10	21
22		0.605 E	6	0.31		0.426 B	6	0.22		7.23 B	6	3.75	22
23		0.698 E	6	0.36		0.438 B	6	0.23		7.19 B	6	3.73	23
24		0.490 E	6	0.25		0.467 B	6	0.24		7.14 B	6	3.70	24
25		0.529 E	6	0.27		0.518 B	6	0.27		7.34 B	6	3.81	25
26		0.698 E	6	0.36		0.541 B	6	0.28		7.13 B	6	3.70	26
27		0.467 A	6	0.24		0.584 B	6	0.30		6.95 B	6	3.60	27
28		0.250	6	0.13		0.569 B	6	0.29		6.99 B	6	3.62	28
29		0.300	6	0.16		0.553 B	6	0.29		7.05 B	6	3.65	29
30		0.352	7	0.21		0.549 B	6	0.28		7.22 B	6	3.74	30
31		0.457	7	0.28						7.17 B	6	3.72	31
TOTAL		8.466		3.97		11.926		6.80		135.102		70.04	TOTAL
MEAN		0.273		0.13		0.397		0.23		4.36		2.26	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	11	
MAXIMUM DAILY	25	ON MAR 11
MINIMUM DAILY	3	ON SEP 18

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	3.81	
MAXIMUM DAILY	24.7	ON APR 29
MINIMUM DAILY	0.01	ON SEP 18

TOTAL SUSPENDED SEDIMENT LOAD 1 392.44 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 27 00 N
LONG 99 58 00 W
DRAINAGE AREA 8 700 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0 B	0	0	1
2										0 B	0	0	2
3										0 B	0	0	3
4										0 B	0	0	4
5										0 B	0	0	5
6										0 B	0	0	6
7										0 B	0	0	7
8										0 B	0	0	8
9										0 B	0	0	9
10										0 B	0	0	10
11										0 B	0	0	11
12										0 B	0	0	12
13										0 B	0	0	13
14										0 B	0	0	14
15										0 B	0	0	15
16										0 B	0	0	16
17										0 B	0	0	17
18										0 B	0	0	18
19										0 B	0	0	19
20										0 B	0	0	20
21										0 B	0	0	21
22										0 B	0	0	22
23										0 B	0	0	23
24										0 B	0	0	24
25										0 B	0	0	25
26										0 B	0	0	26
27										0.050 B	5	0.02	27
28										0.100 B	10	0.09	28
29										0.200 B	15	0.26	29
30										0.400 B	20	0.69	30
31										0.441 B	24 S	0.91	31
TOTAL										1.191		1.97	TOTAL
MEAN										0.038		0.06	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.400 B	20	0.69	11.0	3.08	188 S	50.0	17.0	1.41	12 S	1.46	1
2		0.294 B	15	0.38		2.58	150	33.4		1.23	11	1.17	2
3		0.155 B	10	0.13	12.0	2.30	133 S	26.4	20.0	1.08	12 S	1.12	3
4		0.040 B	5	0.02	13.0	2.23	165 S	31.8		0.963	11	0.92	4
5		0.020 B	0	0	12.0	1.91	140 S	23.1	14.0	0.885	9 S	0.69	5
6		0 B	0	0		1.62	81	11.3		0.820	7	0.50	6
7		0 B	0	0	10.0	1.45	63 S	7.89		0.853	7	0.52	7
8		0 B	0	0		1.29	59	6.58	13.0	0.936	28 S	2.26	8
9		0 B	0	0	10.0	1.16	60 S	6.01		0.811	32	2.24	9
10		0 B	0	0	12.0	1.22	88 S	9.28		0.726	28	1.76	10
11		0.064 B	10	0.06		2.18	169	31.8		0.678	27	1.58	11
12		0.154 B	50	0.67	14.0	2.26	110 S	21.5		0.639	27	1.49	12
13		0.464 B	100	4.01		1.88	94 S	15.3		0.603	26	1.35	13
14		7.30 B	150	94.6		1.72	79	11.7	16.0	0.565	25 S	1.22	14
15		16.6 B	173 S	248	11.0	1.70	54 S	7.93		0.531	25	1.15	15
16		11.9 B	196	202	9.0	2.05	63 S	11.2		0.496	25	1.07	16
17		8.93 B	291	225	8.0	3.31	226 S	64.6		0.483	25	1.04	17
18		10.4 B	541	486	10.0	4.85	393 S	165		0.526	25	1.14	18
19		8.23 B	465 S	331	11.0	4.49	240 S	93.1		0.493	25	1.06	19
20		8.75	445	336		3.78	100	32.7	19.0	0.582	25 S	1.26	20
21	4.0	8.63	417 S	311	11.0	3.13	36 S	9.74		0.736	25	1.59	21
22		10.6	588	539	14.0	2.67	24 S	5.54		0.798	25	1.72	22
23	3.0	15.1	953 S	1 240		2.28	22	4.33		0.736	25	1.59	23
24		14.8	961	1 230	15.0	2.01	20 S	3.47		0.706	25	1.52	24
25		11.9	743	764	17.0	1.82	17 S	2.67	20.0	0.617	26 S	1.39	25
26	6.0	8.84	537 S	410	19.0	1.66	12 S	1.72		0.587	26	1.23	26
27		7.24	520	325		1.51	10	1.30		0.480	26	1.08	27
28	6.0	6.08	494 S	260	20.0	1.38	11 S	1.31		0.443	24	0.92	28
29		4.85	479	201	21.0	1.27	11 S	1.21		0.401	23	0.80	29
30		3.67	292	92.6	15.0	1.24	8 S	0.86		0.372	22	0.71	30
31						1.45	9	1.13					31
TOTAL		165.611		7 301.16		67.48		693.87		21.146		37.55	TOTAL
MEAN		5.51		243		2.18		22.4		0.705		1.25	MEAN

MANITOBA

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	21.0	0.348	20 S	0.60	21.0	0.185	34 S	0.54		0.154	39	0.52	1
2		0.332	19	0.55		0.299	38	0.98	14.0	0.198	38 S	0.65	2
3		0.340	19	0.56		0.293	37	0.94		0.198	28	0.48	3
4		0.328	19	0.54		0.271	32	0.75		0.170	15	0.22	4
5		0.299	19	0.49		0.238	27	0.56	11.0	0.148	9 S	0.12	5
6		0.281	21	0.51		0.199	24	0.41		0.147	9	0.11	6
7		0.272	22	0.52		0.169	22	0.32		0.178	8	0.12	7
8		0.266	23	0.53		0.146	19	0.24		0.196	9	0.15	8
9		0.246	25	0.53	16.0	0.127	18 S	0.20		0.159	8	0.11	9
10		0.222	26	0.50		0.154	17	0.23	9.0	0.128	8 S	0.09	10
11		0.209	28	0.51		0.139	16	0.19		0.118	8	0.08	11
12	27.0	0.200	29 S	0.50		0.114	16	0.16		0.120	9	0.09	12
13		0.177	29	0.44		0.111	15	[illegible]		0.122	9	0.09	13
14		0.167	29	0.42	19.0	0.157	20 S	0.27	11.0	0.127	9 S	0.10	14
15		0.172	29	0.43		0.528	58	2.65		0.153	9	0.12	15
16	26.0	0.657	50 S	2.84		0.464	61	2.45		0.150	9	0.12	16
17		0.809	83	5.80		0.318	58	1.59		0.152	8	0.11	17
18		0.568	78	3.83		0.264	55	1.25		0.151	8	0.10	18
19		0.468	73	2.95		0.224	52	1.01		0.129	8	0.09	19
20	29.0	0.348	66 S	1.98	18.0	0.205	49 S	0.87	10.0	0.115	8 S	0.08	20
21		0.267	46	1.06		0.192	42	0.70		0.121	8	0.08	21
22	18.0	0.236	32 S	0.65		0.181	30	0.47		0.119	8	0.08	22
23		0.268	30	0.69	17.0	0.185	20 S	0.32		0.120	9	0.09	23
24		0.280	28	0.68		0.173	22	0.33	7.0	0.117	9 S	0.09	24
25		0.232	27	0.54		0.204	24	0.42		0.144	9	0.11	25
26		0.208	27	0.49		0.189	26	0.42		0.144	9	0.11	26
27		0.182	26	0.41	16.0	0.161	29 S	0.40		0.131	9	0.10	27
28		0.173	26	0.39		0.157	31	0.42	4.0	0.286	9 S	0.22	28
29		0.280	35	0.85		0.163	34	0.48	3.0	0.562	9 S	0.44	29
30		0.269	35	0.81		0.161	37	0.51		0.549	9	0.43	30
31		0.221	34	0.65		0.152	38	0.50					31
TOTAL		9.325		32.25		6.523		20.72		5.306		5.30	TOTAL
MEAN		0.301		1.04		0.210		0.67		0.177		0.18	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.422	8	0.29									1
2		0.397	8	0.27									2
3		0.395	8	0.27									3
4		0.368	13	0.41									4
5		0.323	22	0.61									5
6		0.322	30	0.83									6
7	2.0	0.331	40 S	1.14									7
8		0.330	43	1.23									8
9	4.0	0.332	41 S	1.18									9
10		0.567	77	3.77									10
11		5.76	333	166									11
12		4.63	237	94.8									12
13		3.12	135	36.4									13
14		2.28	71	14.0									14
15		1.75	52	7.86									15
16		1.40	49	5.93									16
17		1.41	51	6.21									17
18	6.0	1.36	53 S	6.23									18
19		1.20	54	5.60									19
20	2.0	1.07	55 S	5.08									20
21		0.964	56	4.66									21
22	3.0	0.879	55 S	4.18									22
23		0.815	56	3.94									23
24		0.749	54	3.49									24
25		0.688	55	3.27									25
26		0.639	56	3.09									26
27		0.607	56	2.94									27
28	0.5	0.918	93 S	7.38									28
29		5.59	358	173									29
30		4.20	198	71.9									30
31		2.93	83	21.0									31
TOTAL		46.746		656.96									TOTAL
MEAN		1.51		21.2									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	313	
MAXIMUM DAILY	961	ON APR 24
MINIMUM DAILY	0	ON MAR 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	35.7	
MAXIMUM DAILY	1 240	ON APR 23
MINIMUM DAILY	0	ON MAR 01

TOTAL SUSPENDED SEDIMENT LOAD 8 749.78 t

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 03 55 N
LONG 99 46 44 W
DRAINAGE AREA 344 km^2
NATURAL FLOW

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 21	16:15	8.63H	4.0	329 R	12	19	34	56	76	88	95	99	100			BNW
APR 26	17:45	8.84H	6.0	501 K	28	39	59	82	98	98	99	100				BNW
MAY 18	19:00	4.85H	10.0	401 K	22	29	44	66	80	91	97	99	100			BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

MANITOBA

ODEI RIVER NEAR THOMPSON - STATION NO. 05TG003

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		2.18 B				1.66 B				1.61 B			1
2		2.07 B				1.66 B				1.60 B			2
3		2.02 B				1.65 B				1.60 B			3
4		1.93 B				1.65 B				1.60 B			4
5		1.85 B				1.65 B				1.60 B			5
6		1.82 B				1.65 B				1.60 B			6
7		1.79 B				1.65 B				1.60 B			7
8		1.77 B				1.64 B				1.59 B			8
9		1.75 B				1.64 B				1.59 B			9
10		1.73 B				1.64 B				1.59 B			10
11		1.70 B				1.64 B				1.59 B			11
12		1.70 B				1.64 B				1.59 B			12
13		1.70 B				1.63 B				1.58 B			13
14		1.70 B				1.63 B				1.58 B			14
15		1.69 B				1.63 B				1.58 B			15
16		1.69 B				1.63 B				1.58 B			16
17		1.69 B				1.63 B				1.58 B			17
18		1.69 B				1.62 B				1.57 B			18
19		1.68 B				1.62 B				1.57 B			19
20		1.68 B				1.62 B				1.57 B			20
21		1.68 B				1.62 B				1.57 B			21
22		1.68 B				1.62 B				1.57 B			22
23		1.68 B				1.61 B				1.57 E			23
24		1.67 B				1.61 B				1.56 E			24
25		1.67 B				1.61 B				1.56 E			25
26		1.67 B				1.61 B				1.56 E			26
27		1.67 B				1.61 B				1.56 E			27
28		1.67 B				1.61 B				1.56 E			28
29		1.66 B								1.56 E			29
30		1.66 B								1.55 E			30
31		1.66 B								1.55 E			31
TOTAL		54.20				45.68				48.94			TOTAL
MEAN		1.75				1.63				1.58			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1.55 E				220 E	135	2 570		96.8	64 S	535	1
2		1.55 E				292 E	144	3 630		96.5	58	484	2
3		1.54 E				352 E	139	4 230		94.6	56 S	458	3
4		1.54 E				352 E	133	4 040		91.5	59 S	466	4
5		1.54 E				341 E	127	3 740		88.2	61	465	5
6		1.54 A				320 E	122	3 370		89.0	60 S	461	6
7		1.54 E				308 E	117	3 110		90.0	56	435	7
8		1.53 E				297 E	112	2 870		91.7	57 S	452	8
9		1.53 E				281 E	108	2 620		94.2	61	496	9
10		1.53 E			5.0	267 A	101 S	2 330		95.8	62 S	513	10
11		1.53 E				253	88 S	1 920		95.1	58 S	477	11
12		1.52 E				237	81 S	1 660		93.5	54	436	12
13		1.52 E				220	79 S	1 500		90.0	51 S	397	13
14		1.52 E				204	72 S	1 270		85.5	48	355	14
15		1.52 E				187	67 S	1 080	14.0	80.4	46 S	320	15
16		1.52 E				172	67 S	996		75.4	43	280	16
17		1.52 E				158	58 S	792		71.1	42 S	258	17
18		1.52 E				143	56 S	692		67.5	40 S	233	18
19		1.54 E				130	66 S	741		64.4	38	211	19
20		1.57 E				118	56 S	571		61.2	36 S	190	20
21		1.70 E				110	46 S	437		58.6	41	208	21
22		1.85 E				101	42	367		56.1	44 S	213	22
23		2.40 E				93.6	40 S	323		55.0	39	185	23
24		3.66 E				87.9	40	304		55.6	36 S	173	24
25		5.06 E				82.9	42 S	301		60.2	40 S	208	25
26		16.5 E				80.1	42	291		66.3	49	281	26
27		32.6 E				78.2	45 S	304		68.9	55 S	327	27
28		60.0 E				78.8	49 S	334		68.9	54	321	28
29		88.8 E				81.9	52	368		67.6	51 S	298	29
30		142 E				87.4	55 S	415		64.8	51	286	30
31						93.1	62	499					31
TOTAL		385.24				5 826.9		47 675		2 334.4		10 422	TOTAL
MEAN		12.8				188		1 540		77.8		347	MEAN

ODEI RIVER NEAR THOMPSON - STATION NO. 05TG003

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		61.9	63	337		40.1	40 S	139		57.3	33	163	1
2		58.7	66 S	335		40.0	40	138		55.9	34	164	2
3		56.6	64	313		40.8	40 S	141		55.5	38 S	182	3
4		54.9	58 S	275		42.2	46	168		55.9	41	198	4
5		53.0	47	215		44.1	49 S	187		54.2	41 S	192	5
6		53.0	42 S	192		47.0	39 S	158		53.3	40	184	6
7		53.4	40	185		51.1	35	155		52.4	40 S	181	7
8		55.4	39 S	187		55.5	42 S	201		51.1	39	172	8
9		57.8	38 S	190		59.4	45	231		50.6	38	166	9
10		59.2	40	205		63.8	45 S	248		50.3	39	169	10
11		59.3	40 S	205		66.4	44	252		51.3	41	182	11
12		59.9	42	217		67.3	44 S	256		52.4	42	190	12
13		59.8	43 S	222		65.8	44 S	250		55.9	43	208	13
14		60.8	42	221		63.8	44	243		59.3	44	225	14
15		61.8	40 S	214		62.8	46 S	250		60.0	44	228	15
16		61.5	40 S	213		62.6	49	265		59.7	43	222	16
17		60.1	38	197		64.6	52 S	290		59.6	43	221	17
18		57.6	35 S	174		68.6	61	362		59.2	43	220	18
19		55.0	35	166		72.4	71 S	444		59.3	42	215	19
20		52.9	38 S	174		76.7	75 S	497		59.6	42	216	20
21	18.0	50.7	35 S	153		83.2	72	518		60.0	41	213	21
22		48.6	35 S	147		87.2	67 S	505		60.3	40	208	22
23		48.1	39 S	162		86.4	59	440		59.8	40	207	23
24		46.2	40	160		84.0	53 S	385		58.8	39	198	24
25		45.2	38 S	148		79.6	49	337		57.9	39	195	25
26		44.7	36	139		75.4	45 S	293		57.4	38	188	26
27		44.0	37 S	141		71.4	43	265		56.0	38	184	27
28		43.3	38	142		67.7	40	234		54.4	38	179	28
29		41.8	37 S	134		64.7	37	207		55.2	38	181	29
30		40.4	36 S	126		61.9	35	187		55.2	38	181	30
31		40.7	38	134		59.0	34	173					31
TOTAL		1 646.3		6 023		1 975.5		8 419		1 687.8		5 832	TOTAL
MEAN		53.1		194		63.7		272		56.3		194	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		55.3				51.5				27.6 B			1
2		57.5				45.4				27.3 B			2
3		60.4				39.8				27.1 B			3
4		63.7				38.1 B				26.9 B			4
5		67.3				37.2 B				26.6 B			5
6		69.9				36.2 B				26.4 B			6
7		71.1				35.5 B				26.2 B			7
8		71.3				34.9 B				26.0 B			8
9		70.9				34.2 B				25.8 B			9
10		69.8				33.6 B				25.5 B			10
11		68.7				33.1 B				25.3 B			11
12		68.0				32.7 B				25.1 B			12
13		67.3				32.4 B				24.9 B			13
14		66.3				32.1 B				24.7 B			14
15		65.1				31.7 B				24.5 B			15
16		63.5				31.4 B				24.3 B			16
17		62.2				31.2 B				24.2 B			17
18		60.9				30.9 B				24.0 B			18
19		59.2				30.6 B				23.9 B			19
20		57.9				30.3 B				23.7 B			20
21		56.2				30.0 B				23.6 B			21
22		55.1				29.8 B				23.4 B			22
23		53.8				29.6 B				23.3 B			23
24		53.2				29.3 B				23.1 B			24
25		52.2				29.0 B				22.9 B			25
26		51.7				28.8 B				22.7 B			26
27		51.2				28.5 B				22.5 B			27
28		50.5				28.3 B				22.3 B			28
29		51.1				28.1 B				22.1 B			29
30		51.6				27.8 B				21.9 B			30
31		51.8								21.6 B			31
TOTAL		1 874.7				992.0				759.4			TOTAL
MEAN		60.5				33.1				24.5			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 59 45 N
LONG 97 21 23 W
DRAINAGE AREA 6 450 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0 B	0	0		0 B	0	0		0 B	0	0	1
2		0 B	0	0		0 B	0	0		0 B	0	0	2
3		0 B	0	0		0 B	0	0		0 B	0	0	3
4		0 B	0	0		0 B	0	0		0 B	0	0	4
5		0 B	0	0		0 B	0	0		0 B	0	0	5
6		0 B	0	0		0 B	0	0		0 B	0	0	6
7		0 B	0	0		0 B	0	0		0 B	0	0	7
8		0 B	0	0		0 B	0	0		0 B	0	0	8
9		0 B	0	0		0 B	0	0		0 B	0	0	9
10		0 B	0	0		0 B	0	0		0 B	0	0	10
11		0 B	0	0		0 B	0	0		0 B	0	0	11
12		0 B	0	0		0 B	0	0		0 B	0	0	12
13		0 B	0	0		0 B	0	0		0 B	0	0	13
14		0 B	0	0		0 B	0	0		0 B	0	0	14
15		0 B	0	0		0 B	0	0		0 B	0	0	15
16		0 B	0	0		0 B	0	0		0.020 B	3	0.01	16
17		0 B	0	0		0 B	0	0		0.040 B	10	0.03	17
18		0 B	0	0		0 B	0	0	0.5	0.060 B	15 S	0.08	18
19		0 B	0	0		0 B	0	0		0.078 B	16	0.11	19
20		0 B	0	0		0 B	0	0		0.097 B	15	0.13	20
21		0 B	0	0		0 B	0	0		0.115 B	16	0.16	21
22		0 B	0	0		0 B	0	0		0.133 B	16	0.18	22
23		0 B	0	0		0 B	0	0		0.152 B	17	0.22	23
24		0 B	0	0		0 B	0	0	0.5	0.170 B	17 S	0.25	24
25		0 B	0	0		0 B	0	0		0.050 B	17	0.07	25
26		0 B	0	0		0 B	0	0		0.028 B	17	0.04	26
27		0 B	0	0		0 B	0	0		0.016 B	17	0.02	27
28		0 B	0	0		0 B	0	0		0.120 B	17	0.18	28
29		0 B	0	0						0.408 B	18	0.63	29
30		0 B	0	0						2.34 B	23	4.65	30
31		0 B	0	0						6.61 B	32	18.3	31
TOTAL		0		0		0		0		10.437		25.06	TOTAL
MEAN		0		0		0		0		0.336		0.81	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		3.94 B	39	13.3	14.0	21.4	461 S	852		10.5	101	91.6	1
2	0.5	3.02 B	42 S	11.0	15.0	21.7	414 S	776	14.0	10.4	95 S	85.4	2
3		2.98 B	42	10.8	17.0	21.9	500 S	946		10.2	201	177	3
4		4.85 B	42	17.6	16.0	21.6	438 S	817		9.86	359	306	4
5		2.76 B	42	10.0	14.5	20.9 A	374 S	675		11.7	421	426	5
6		2.39 B	42	8.67	9.0	20.5	344 S	609	12.0	44.9	1 190 S	4 620	6
7	0.5	2.35 B	42 S	8.53		20.3	295	517	12.0	31.4	4 660 S	12 600	7
8		3.98 B	43	14.8		20.0	280	484	11.0	19.7	824 S	1 400	8
9		4.45 B	52	20.0	8.0	20.3	272 S	477	10.0	17.4	631 S	949	9
10		5.76 B	111	55.2	8.0	20.0	261 S	451	11.0	16.0	466 S	644	10
11		7.58 B	255	167	8.0	19.4	243 S	407		14.7	375	476	11
12	3.0	10.9 B	867 S	817	8.0	18.6	227 S	365		13.5	324	378	12
13	0.5	12.9 B	531 S	592		17.9	216	334	18.0	12.6	298 S	324	13
14	4.0	14.2	696 S	854		17.1	210	310		12.1	292	305	14
15	4.5	18.5	1 090 S	1 740	11.0	16.7	206 S	297		11.7	273	276	15
16	5.0	15.6	520 S	701		16.3	205	289		11.4	240	236	16
17	5.0	13.8	345 S	411	11.0	16.1	195 S	271		10.9	211	199	17
18	6.5	12.7	293 S	322		15.9	186	256		10.6	191	175	18
19	5.0	13.6	335 S	394		15.5	179	240		10.3	186	166	19
20	4.5	15.6	500 S	674		15.1	174	227	14.0	10.2	181 S	160	20
21	6.0	16.9	576 S	841	15.0	14.7	176 S	224		9.99	164	182	21
22	8.0	17.4	562 S	845		14.3	180	222		9.65	149	124	22
23	11.0	17.9	555 S	858	16.0	13.9	188 S	226		9.29	124	99.5	23
24	13.0	18.3	595 S	941		13.5	186	217		8.90	107	82.3	24
25	9.5	18.5	595 S	951		13.0	176	198		8.63	93	69.3	25
26	9.0	18.8	530 S	861		12.7	167	183		8.45	93	67.9	26
27	10.0	19.5	526 S	886		12.4	156	167	19.0	8.24	88 S	62.7	27
28	10.5	20.3	504 S	884		12.0	140	145		7.92	81	55.4	28
29	9.5	21.2	479 S	877		11.6	123	123		7.70	78	51.9	29
30	11.0	21.5	480 S	892		11.2	113	109		7.39	74	47.2	30
31						10.8	110	103					31
TOTAL		362.16		15 677.90		517.3		11 517		386.22		24 796.2	TOTAL
MEAN		12.1		523		16.7		372		12.9		827	MEAN

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05ID0007

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		7.08	72	44.0	23.0	3.56	31 S	9.54		1.80	8	1.28	1
2		6.78	81	47.4		3.46	31	9.27		1.75	7	1.06	2
3		6.65	71	40.8		3.35	30	8.68		1.69	7	1.02	3
4	25.0	6.38	61 S	33.6		3.22	30	8.35		1.63	7	0.99	4
5		6.48	58	32.5		3.11	29	7.79		1.58	8	1.09	5
6		6.38	62	34.2		3.57	28	8.64		1.60	7	0.97	6
7		6.33	62	33.9		3.25	29	8.14		1.58	7	0.96	7
8		6.14	69	36.6	19.0	2.97	27 S	6.93		1.56	7	0.94	8
9		5.87	69	35.0		2.89	28	6.99		1.50	7	0.91	9
10		5.55	55	26.4		2.82	28	6.82		1.45	7	0.88	10
11	20.0	5.83	65 S	30.5		2.79	28	6.75		1.38	7	0.83	11
12		5.29	64	29.3		2.74	27	6.39		1.33	6	0.69	12
13		5.20	66	29.7		2.74	27	6.39		1.32	6	0.68	13
14		5.19	71	31.8		2.69	28	6.51		1.25	5	0.54	14
15		5.34	70	32.3		2.65	29	6.64	9.0	1.21	6 S	0.63	15
16		5.34	68	31.4		2.59	29	6.49		1.15	6	0.60	16
17		5.16	57	25.4		2.52	28	6.10		1.11	6	0.58	17
18	24.0	5.07	53 S	23.2	27.0	2.49	28 S	6.02		1.08	7	0.65	18
19		4.97	47	20.2		2.39	25	5.16		1.05	7	0.64	19
20		4.96	50	21.4		2.29	23	4.55		1.05	7	0.64	20
21		4.92	57	24.2		2.28	21	4.14		1.05	7	0.64	21
22		4.82	59	24.6		2.25	19	3.69		1.03	6	0.53	22
23		4.85	59	24.7		2.22	18	3.45		1.03	6	0.53	23
24		4.68	44	17.8		2.14	16	2.96		1.04	7	0.63	24
25	21.0	4.66	44 S	17.7		2.09	14	2.53		1.02	6	0.53	25
26		4.53	45	17.6		2.02	11	1.92	8.0	1.03	6 S	0.53	26
27		4.46	55	21.2		1.92	9	1.49		1.12	6	0.58	27
28		4.22	51	18.6		1.89	8	1.31		1.41	6	0.73	28
29	22.0	4.08	34 S	12.0	19.0	1.83	8 S	1.26		1.29	7	0.78	29
30		3.91	31	10.5		1.85	8	1.28		1.21	8	0.84	30
31		3.73	32	10.3		1.85	8	1.28					31
TOTAL		164.85		838.8		80.43		167.46		39.30		22.86	TOTAL
MEAN		5.30		27.1		2.59		5.40		1.31		0.76	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.23	9	0.96		0.801	5	0.35		0.280 B	32	0.77	1
2	6.0	1.24	8 S	0.86		0.778	4	0.27		0.305 B	37	0.98	2
3		1.21	11	1.15		0.717 B	5	0.31		0.340 B	38	1.12	3
4		1.20	13	1.35		0.710 B	6	0.37		0.400 B	38	1.31	4
5		1.19	14	1.44		0.700 B	8	0.48		0.390 B	42	1.42	5
6		1.17	14	1.42		0.690 B	10	0.60		0.405 B	47	1.64	6
7		1.36	13	1.53	0.5	0.685 B	10 S	0.59		0.300 B	48	1.24	7
8		1.44	12	1.49	0.5	0.678 B	10 S	0.59		0.210 B	49	0.89	8
9		1.38	16	1.91		0.656 B	10	0.57	0.5	0.195 B	50 S	0.84	9
10	7.0	1.58	24 S	3.28		0.616 B	11	0.60		0.175 B	52	0.79	10
11		1.52	25	3.28		0.610 B	11	0.58		0.165 B	56	0.80	11
12		1.41	23	2.80		0.575 B	11	0.55		0.180 B	60	0.93	12
13		1.36	21	2.47		0.600 B	9	0.47		0.190 B	63	1.03	13
14		1.33	15	1.72		0.575 B	10	0.50		0.170 B	66	0.97	14
15	7.0	1.27	11 S	1.21		0.545 B	11	0.52		0.172 B	69	1.03	15
16		1.24	10	1.07		0.580 B	11	0.55		0.174 B	73	1.10	16
17		1.33	11	1.26		0.620 B	12	0.64		0.176 B	75	1.14	17
18		1.28	10	1.11		0.570 B	13	0.64		0.180 B	78	1.21	18
19		1.22	10	1.05		0.505 B	13	0.61		0.170 B	82	1.20	19
20		1.18	10	1.02		0.450 B	14	0.54		0.155 B	85	1.14	20
21		1.11	10	0.96		0.400 B	15	0.52		0.140 B	88	1.06	21
22		1.08	9	0.84		0.410 B	15	0.53		0.145 B	91	1.14	22
23		1.07	9	0.83		0.420 B	20	0.73		0.150 B	96	1.24	23
24	6.0	1.03	8 S	0.71		0.410 B	24	0.85		0.160 B	100	1.38	24
25		0.997	8	0.69		0.390 B	24	0.81		0.150 B	102	1.32	25
26		0.966	8	0.67		0.370 B	24	0.77		0.120 B	105	1.10	26
27		0.933	9	0.73		0.350 B	22	0.67		0.125 B	110	1.19	27
28		0.927	9	0.72		0.330 B	23	0.66		0.130 B	114	1.28	28
29		0.912	8	0.63		0.310 B	23	0.62		0.115 B	119	1.18	29
30		0.875	8	0.60		0.290 B	25	0.63		0.100 B	124	1.07	30
31	1.0	0.836	7 S	0.51						0.105 B	128	1.16	31
TOTAL		36.876		40.27		16.359		17.12		6.172		34.67	TOTAL
MEAN		1.19		1.30		0.545		0.57		0.199		1.12	MEAN

SUMMARY FOR THE YEAR 1982

TOTAL SUSPENDED SEDIMENT LOAD 53 137.34 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	380	
MAXIMUM DAILY	4 660	ON JUN 07
MINIMUM DAILY	0	ON JAN 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	146	
MAXIMUM DAILY	12 600	ON JUN 07
MINIMUM DAILY	0	ON JAN 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 53 N
LONG 98 16 40 W
DRAINAGE AREA 7 510 km^2
REGULATED FLOW
INTERNATIONAL GAUGING STATION

A - MANUAL GAUGE B - ICE CONDITIONS E - SAMPLE(S) COLLECTED THIS DAY

PEMBINA RIVER NEAR WINEGATE - STATION NO. 05OB007

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 14	13:20	13.7		3.0	718	D	23	34	51	69	84	93	97	99	100			BMW
APR 17	19:30	13.8	H	6.0	330	K	24	38	57	73	85	92	95	98	99	100		BMW
APR 24	18:15	18.3	H	14.5	585	K	20	27	46	70	82	89	95	98	99	100		BMW
APR 27	15:45	19.6		12.0	521	D	18	30	48	70	80	86	90	95	98	99	100	BMW
APR 30	19:50	21.5	H	12.0	466	K	21	33	50	70	81	89	94	98	99	100		BMW
MAY 05	13:30	20.6		14.0	359	K	22	34	52	71	80	86	90	95	96	98	100	BMW
JUN 07	11:30	30.4		12.0	1 770	D	32	41	57	71	81	88	94	98	99	99	100	BMW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL D - SAMPLES COLLECTED IN SEVERAL VERTICALS

RED RIVER AT EMERSON - STATION NO. 05OC001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		32.6 B	9	25.3		29.2 B	10	25.2		34.5 B	11	32.8	1
2		33.7 B	9	26.2		28.6 B	10	24.7		35.1 B	11	33.4	2
3		34.3 B	9	26.7	0.5	28.6 B	10 S	24.7	0.5	35.4 B	11 S	33.6	3
4		34.5 B	9	26.8		28.3 B	10	24.5		36.0 B	10	31.1	4
5	0.5	34.5 B	9 S	26.8		28.1 P	10	24.3		36.2 B	11	34.4	5
6		34.5 B	8	23.8		27.8 B	10	24.0		36.5 B	11	34.7	6
7		34.5 B	9	26.8		27.6 B	10	23.8		36.5 B	13	41.0	7
8		34.3 B	9	26.7		27.8 B	10	24.0		36.5 B	12	37.8	8
9		33.7 B	8	23.3		28.1 B	10	24.3		36.5 B	12	37.8	9
10		33.7 B	8	23.3		28.2 B	10	24.4		36.5 B	13	41.0	10
11		33.4 B	8	23.1		28.3 B	10	24.5		36.8 B	14	44.5	11
12		33.1 B	9	25.7		28.6 B	10	24.7		37.1 B	14	44.9	12
13		32.8 B	9	25.5		28.3 B	10	24.5		37.4 B	15	48.5	13
14		32.8 B	9	25.5		28.3 B	10	24.5		37.4 B	15	48.5	14
15		32.6 B	10	28.2		28.6 B	10	24.7		37.4 B	15	48.5	15
16		32.6 B	11	31.0		29.2 B	10	25.2		37.4 B	15	48.5	16
17		32.3 B	12	33.5		29.7 B	10	25.7		37.7 B	17	55.4	17
18		32.0 B	12	33.2		30.3 B	10	26.2	0.5	38.5 B	17 S	56.5	18
19		31.7 B	12	32.9	0.5	30.6 B	10 S	26.4		38.8 B	18	60.3	19
20		31.4 B	12	32.6		31.1 B	9	24.2		39.4 B	18	61.3	20
21	0.5	30.9 B	12 S	33.0		31.4 B	10	27.1		40.2 B	18	62.5	21
22		30.6 B	11	29.1		31.4 B	10	27.1		41.9 B	19	68.8	22
23		31.1 B	11	29.6		31.7 B	10	27.4		45.6 B	19	74.9	23
24		31.7 B	12	32.9		32.3 B	10	27.9		52.1 B	20	90.0	24
25		32.0 B	11	30.4		32.8 B	10	28.3		60.3 B	22	115	25
26		32.0 B	10	27.6		33.1 B	10	28.6		70.2 B	25	152	26
27		32.3 B	10	27.9		33.7 B	10	29.1		79.3 B	28	192	27
28		32.0 B	10	27.6		34.3 B	10	29.6		85.2 B	31	228	28
29		31.4 B	10	27.1						91.2 B	36	284	29
30		30.9 B	10	26.7						103 B	40	356	30
31		30.0 B	9	23.3						133 B	47	540	31
TOTAL		1 009.9		881.1		836.0		719.6		1 539.6		3 037.7	TOTAL
MEAN		32.6		27.8		29.9		25.7		49.7		98.0	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		176 B	53	797		406	147	5 160	17.0	165	275 S	3 920	1
2		231 B	59	1 180		366 A	181	5 720	17.0	156	270 S	3 640	2
3		273 B	66	1 560		290 A	233	5 840	16.0	149	261 S	3 360	3
4		303 B	72	1 880		248 A	298	6 390	16.0	143	215 S	2 660	4
5		337 B	77	2 240	14.0	215 A	337 S	6 260	15.0	136	167 S	1 960	5
6		365 B	83	2 620	13.0	187 A	361 S	5 830	15.0	133	134 S	1 540	6
7		396 B	88	3 010		198	390	6 540	15.0	131	119 S	1 350	7
8		428 B	94	3 480	14.0	226	465 S	9 080		135	253 S	2 950	8
9		453 B	103	4 030	13.0	254	550 S	12 100	14.0	154	961 S	12 800	9
10		473 B	119	4 860	13.0	258	573 S	12 800	15.0	149	314 S	4 040	10
11		490 B	145	6 140	14.0	245	353 S	7 470	15.0	144	313 S	3 890	11
12		535 B	187	8 640		226	252	4 920	16.0	142	288 S	3 530	12
13	1.0	623 B	246 S	13 200	13.0	207	217 S	3 880	17.0	137	295 S	3 490	13
14		807 B	311	21 700		195	217	3 660	17.0	132	304 S	3 470	14
15	4.0	883	357 S	27 200	14.0	195	220 S	3 710	18.0	130	318 S	3 570	15
16	4.0	926	386 S	30 980	14.0	201	219 S	3 800	18.0	127	297 S	3 260	16
17	4.0	951	404 S	33 200	15.0	218	216 S	4 070	18.0	122	281 S	2 960	17
18		963	334	27 800	14.0	244	226 S	4 760	16.0	116	282 S	2 830	18
19	5.0	963	286 S	23 800	15.0	263	259 S	5 890		111	281	2 690	19
20	5.0	946	275 S	23 500		286	287	7 099		106	281 S	2 570	20
21	6.0	920	259 S	20 600	15.0	304	276 S	7 250		101	281 S	2 450	21
22	7.5	889	286 S	19 800		317	263	7 200	19.0	97.5	280 S	2 360	22
23	8.0	850	178 S	13 100	16.0	320	257 S	7 110		95.1	255 S	2 100	23
24	11.0	807	169 S	11 800		312	252	6 790		91.9	211 S	1 680	24
25		756	161	10 500		293	249	6 300		90.3	189	1 470	25
26	11.0	708	149 S	9 110		271	246	5 760		88.7	183 S	1 400	26
27	10.0	663	131 S	7 500		248	244	5 230	23.0	86.5	186 S	1 390	27
28	11.0	626 A	123 S	6 650	20.0	226	240 S	4 690	23.0	84.9	190 S	1 390	28
29	10.0	538 A	124 S	5 760	20.0	206	241 S	4 290	23.0	83.6	198 S	1 430	29
30	11.0	482	129 S	5 370	18.0	189	241 S	3 940		83.1	210	1 510	30
31					18.0	176	251 S	3 820					31
TOTAL		18 759		346 927		7 786		187 350		3 620.6		87 660	TOTAL
MEAN		625		11 600		251		6 040		121		2 920	MEAN

MANITOBA

RED RIVER AT EMERSON - STATION NO. 05OC001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		82.1	209	1 480		122	338	3 560	19.0	45.2	99 S	387	1
2	23.0	80.9	201 S	1 400		112	332	3 210	19.0	44.7	99 S	382	2
3	23.0	80.1	201 S	1 390	23.0	105	324 S	2 940	19.0	43.8	99 S	375	3
4	23.0	80.2	203 S	1 410		100	282	2 440	19.0	42.9	97 S	360	4
5	23.0	87.9	237 S	1 800		96.7	229	1 910	18.0	41.7	92 S	331	5
6	23.0	116	400 S	4 010		94.3	173	1 410	18.0	40.9	91 S	322	6
7	23.0	127	361 S	3 960	23.0	89.7	132 S	1 020	19.0	39.8	92 S	316	7
8	24.0	135	329 S	3 840	22.0	85.7	106 S	785	19.0	38.7	96 S	321	8
9	24.0	139	330 S	3 960	22.0	83.2	98 S	704	19.0	37.8	96 S	314	9
10	24.0	141	338 S	4 120	21.0	80.0	109 S	753	19.0	36.7	94 S	298	10
11	23.0	136	329 S	3 870	21.0	75.2	106 S	689	19.0	36.5	93 S	293	11
12	22.0	126	313 S	3 410	21.0	71.4	106 S	654	19.0	36.5	94 S	296	12
13	21.0	118	324 S	3 300	22.0	68.2	115 S	678	19.0	35.7	96 S	296	13
14	23.0	110	327 S	3 110	22.0	66.7	105 S	605	15.0	35.4	98 S	300	14
15	23.0	105	344 S	3 120	21.0	64.9	90 S	505	14.0	35.5	88 S	270	15
16	22.0	100	343 S	2 960	21.0	63.7	94 S	517	14.0	35.9	82 S	254	16
17	22.0	99.0	343 S	2 930	22.0	62.5	96 S	518	14.0	36.0	75 S	233	17
18	21.0	96.0	333 S	2 760	21.0	61.2	95 S	502	15.0	36.3	65 S	204	18
19	22.0	93.0	327 S	2 630	21.0	60.0	93 S	482	14.0	36.8	75 S	238	19
20	22.0	91.2	336 S	2 650	20.0	58.3	92 S	463	14.0	36.5	74 S	233	20
21		99.3	330 S	2 830	20.0	57.3	93 S	460	13.0	36.9	62 S	198	21
22		112	319	3 090	20.0	56.3	91 S	443	12.0	37.2	66 S	212	22
23		117	330	3 340	21.0	56.4	96 S	468	14.0	37.1	74 S	237	23
24		120	367	3 810	21.0	53.4	96 S	443	13.0	36.1	76 S	237	24
25		130	416	4 670	20.0	50.4	119 S	518	12.0	36.2	68 S	213	25
26		147	448	5 690	20.0	47.9	110 S	455	12.0	36.0	68 S	212	26
27		153	426	5 630	20.0	46.0	100 S	397	12.0	36.2	71 S	222	27
28		149	383	4 930	20.0	44.0	103 S	392	11.0	37.9	82 S	269	28
29		146	359	4 530	20.0	42.7	103 S	380	10.0	38.1	75 S	247	29
30		140	348	4 210	19.0	42.9	100 S	371	10.0	37.8	53 S	173	30
31		132	343	3 910	19.0	44.5	96 S	369					31
TOTAL		3 588.7		104 750		2 162.5		29 041		1 142.8		8 283	TOTAL
MEAN		116		3 380		69.8		937		38.1		275	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	10.0	38.4	53 S	176	5.0	105	83 S	753		53.8 B	21	97.6	1
2	9.0	39.7	90 S	309	5.0	102	79 S	696		54.4 B	22	103	2
3	9.0	39.7	168 S	576		100	78	639		55.5 B	25	120	3
4	9.0	40.0	234 S	809		97.5	69	581		57.2 B	28	138	4
5	9.0	40.5	281 S	983		94.3	64	521		60.0 B	30	156	5
6	10.0	42.1	327 S	1 190		90.9	61	479		62.7 B	32	173	6
7		46.4	375	1 500	2.0	89.6	56 S	434		66.0 B	34	194	7
8	10.0	55.8	421 S	2 030	1.0	88.1	56 S	426		69.9 B	37	223	8
9	11.0	69.4	467 S	2 800	1.0	85.4	59 S	435		73.4 B	40	254	9
10	10.0	77.5	510 S	3 410	1.5	83.7	62 S	448		76.2 B	42	269	10
11	10.0	94.4	493 S	4 020		78.4 B	64	434		74.1 B	40	256	11
12	10.0	124	411 S	4 400		70.2 B	63	382		70.2 B	37	224	12
13	10.0	151	315 S	4 110		59.7 B	60	309		64.1 B	33	183	13
14	9.0	187	236 S	3 810		60.9 B	58	305		57.2 B	29	143	14
15	9.0	222	209 S	4 010		62.0 B	58	311		52.1 B	27	122	15
16	10.0	229	192 S	3 800		60.3 B	56	292		50.1 B	27	117	16
17	10.0	230	176 S	3 500		58.7 B	53	269		49.0 B	26	110	17
18	10.0	223	159 S	3 060		57.6 B	49	244		48.7 B	26	109	18
19	9.0	206	145 S	2 580		56.5 B	47	229		48.7 B	26	109	19
20	9.0	190	136 S	2 230		56.8 B	45	221		48.1 B	26	108	20
21	8.0	175	129 S	1 950		58.1 B	42	211		47.6 B	25	103	21
22	7.0	161	123 S	1 710		60.3 B	40	208		47.6 B	25	103	22
23	7.0	151	118 S	1 540		62.4 B	37	199		47.6 B	25	103	23
24	7.0	144	114 S	1 420		63.5 B	34	187		47.3 B	24	98.1	24
25	7.0	139	111 S	1 330		64.1 B	32	177		47.0 B	24	97.5	25
26	7.0	133	107 S	1 230		63.2 B	29	158		46.7 B	23	92.8	26
27	7.0	127	104 S	1 140		60.7 B	27	142		46.2 B	23	91.8	27
28	6.0	121	102 S	1 070		56.9 B	25	123		45.6 B	23	90.6	28
29	6.0	116	97 S	972		53.7 B	23	107		45.3 B	22	86.1	29
30	6.0	112	92 S	890		53.0 B	21	96.2		44.5 B	22	84.6	30
31	6.0	108	87 S	812						44.2 B	22	84.0	31
TOTAL		3 832.9		63 367		2 153.5		10 016.2		1 699.0		4 243.1	TOTAL
MEAN		124		2 040		71.8		334		54.8		137	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	203	
MAXIMUM DAILY	961	ON JUN 09
MINIMUM DAILY	8	ON JAN 06

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	2 320	
MAXIMUM DAILY	33 200	ON APR 17
MINIMUM DAILY	23.1	ON JAN 11

TOTAL SUSPENDED SEDIMENT LOAD 846 215.7 t

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 00 30 N
LONG 97 12 40 W
DRAINAGE AREA 104 000 km^2
REGULATED FLOW
INTERNATIONAL GAUGING STATION

RED RIVER AT EMERSON - STATION NO. 05OC001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 17	16:00	950	4.0	394 B	48	59	78	88	92	95	99	100				BNW
MAY 06	13:00	187	13.0	362 B	41	51	72	88	95	98	99	100				BNW
MAY 23	20:30	320 H	16.0	255 K	43	56	75	94	97	98	99	100				BNW
JUN 09	11:30	148	14.0	1 620 B	32	45	76	92	97	98	99	100				BNW
JUL 07	21:30	127 H	23.0	334 K	36	48	69	86	93	96	98	99	100			BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL B - SAMPLES COLLECTED IN SEVERAL VERTICALS

RED RIVER AT EMERSON - STATION NO. 05OC001

POINT INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	VERTICAL (m)	DEPTH OF SAMPLE (m)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 17	16:00	950	4.0	91.4	0.14	388	58	66	83	90	95	97	99	100				BNW
					1.96	409	58	66	82	89	94	96	97	100				BNW
					3.92	425	56	64	78	87	90	94	97	99	100			BNW
					5.88	404	57	65	79	88	92	95	99	100				BNW
					7.84	584	40	49	58	63	70	75	83	91	94	96		BNW
					8.82	382	55	64	83	90	93	95	98	100				BNW
					9.20	385	59	67	82	89	93	95	98	100				BNW
					9.80		STREAMBED											
				103.6	0.14	414	57	68	80	90	93	95	99	100				BNW
					2.14	405	51	61	83	97	93	96	98	100				BNW
					4.28	416	51	58	77	84	93	95	97	100				BNW
					6.42	435	60	66	83	92	96	97	99	100				BNW
					8.56	419	59	68	84	91	95	97	99	100				BNW
					9.63	415	56	62	82	91	94	97	98	100				BNW
					10.10	410	51	55	66	76	81	87	93	98	99	99		BNW
					10.70		STREAMBED											
				118.8	0.14	371	49	56	79	90	94	96	98	100				BNW
					2.22	397	55	63	82	91	95	98	99	100				BNW
					4.44	397	57	65	83	94	97	98	99	100				BNW
					6.66	413	62	68	84	93	97	98	100					BNW
					8.88	400	55	63	81	90	95	97	99	100				BNW
					9.99	408	55	62	83	92	96	96	99	100				BNW
					10.50	428	55	64	83	90	94	96	99	100				BNW
					11.10		STREAMBED											
				131.1	0.14	389	54	61	82	90	94	96	98	100				BNW
					2.24	388	52	61	84	92	95	96	99	100				BNW
					4.48	402	62	71	88	95	97	98	99	99	100			BNW
					6.72	402	57	65	82	89	94	96	99	100				BNW
					8.96	395	59	68	83	92	96	97	98	100				BNW
					10.10	414	50	62	81	89	93	95	98	100				BNW
					10.60	408	54	62	81	87	93	95	98	100				BNW
					11.20		STREAMBED											
				149.4	0.14	394	63	73	87	94	97	98	99	100				BNW
					2.40	402	58	70	86	93	97	98	99	100				BNW
					4.80	377	55	66	83	91	96	98	100					BNW
					7.20	378	55	63	83	91	96	96	98	100				BNW
					9.60	419	57	65	84	94	97	98	99	100				BNW
					10.80	409	63	76	87	94	97	98	99	99	100			BNW
					11.40	418	58	66	83	92	95	96	97	99	100			BNW
					12.00		STREAMBED											

MANITOBA

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

SUSPENDED SEDIMENT FOR 1982

DAY	TEMP. (°C)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	TEMP. (°C)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	TEMP. (°C)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
		JAN				FEB				MAR			
1		39.5 B	9	30.7		42.7 B	9	33.2		46.8 B	10	40.4	1
2		40.9 B	9	31.8	0.5	42.0 B	9 S	32.7	0.5	46.9 B	10 S	40.5	2
3		40.6 B	9	31.6		41.8 B	9	32.5		47.1 B	10	40.7	3
4		40.2 B	9	31.3		41.1 B	8	28.4		48.4 B	11	46.0	4
5		40.6 B	9	31.6		41.4 B	8	28.6		48.9 B	11	46.5	5
6		39.9 B	9	31.0		41.2 B	8	28.5		48.9 B	10	42.2	6
7		40.0 B	9	31.1		40.4 B	7	24.4		48.0 B	10	41.5	7
8		39.3 B	9	30.6		40.3 B	7	24.4		47.8 B	10	41.3	8
9		38.5 B	9	29.9		40.7 B	7	24.6		47.8 B	10	41.3	9
10		37.8 B	9	29.4		41.1 B	7	24.9		47.9 B	9	37.2	10
11	0.5	37.4 B	9 S	29.1		41.0 B	7	24.8		48.0 B	10	41.5	11
12		37.3 B	9	29.0		41.0 B	7	24.8		48.5 B	9	37.7	12
13		37.4 B	9	29.1		40.6 B	7	24.6		49.1 B	9	38.2	13
14		39.0 B	9	30.3		41.0 B	7	24.8		49.0 B	9	38.1	14
15		39.6 B	9	30.8		41.5 B	7	25.1		49.2 B	9	38.3	15
16		39.8 B	9	30.9		41.5 B	7	25.1		48.9 B	8	33.8	16
17		39.7 B	9	30.9		41.9 B	7	25.3	0.5	49.5 B	8 S	34.2	17
18		40.1 B	9	31.2		42.7 B	6	22.1		50.3 B	10	43.5	18
19		40.8 B	9	31.7	0.5	43.2 B	6 S	22.4		50.8 B	13	57.1	19
20		41.6 B	9	32.3		43.9 B	6	22.8		51.7 B	16	62.5	20
21	0.5	41.3 B	9 S	32.1		44.1 B	7	26.7		52.5 B	16	72.6	21
22		40.6 B	9	31.6		44.0 B	7	26.6		53.5 B	17	78.6	22
23		41.6 B	9	32.3		44.2 B	8	30.6		57.0 B	19	93.6	23
24		42.9 B	9	33.4		44.8 B	9	34.8		63.2 B	21	115	24
25		43.8 B	9	34.1		45.4 B	9	35.3		70.7 B	24	147	25
26		44.1 B	9	34.3		45.5 B	10	39.3		78.9 B	30	205	26
27		44.9 B	9	34.9		46.3 B	10	40.0		87.4 B	36	272	27
28		45.2 B	9	35.1		47.0 B	10	40.6		93.3 B	41	331	28
29		44.6 B	9	34.7						98.7 B	46	392	29
30		43.4 B	9	33.7						112 B	54	523	30
31		43.4 B	9	33.7						141 B	65	792	31
TOTAL		1 265.8		984.2		1 192.3		797.9		1 881.7		3 864.3	TOTAL
MEAN		40.8		31.7		42.6		28.5		60.7		125	MEAN

DAY	TEMP. (°C)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	TEMP. (°C)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	TEMP. (°C)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
		APR				MAY				JUN			
1		179 B	80	1 240	12.0	773	219 S	14 600	15.0	335	117 S	3 390	1
2		233 B	95	1 910	13.0	700	203 S	12 300		322	89	2 480	2
3		272 B	115	2 700	15.0	593 A	192 S	9 840	16.0	312	77 S	2 080	3
4		300 B	138	3 580	15.0	531 E	197 S	9 040		301	73	1 900	4
5		328 B	161	4 560	16.0	475 E	209 S	8 580	18.0	289	84 S	2 100	5
6	0.5	365 B	186 S	5 870	11.0	435 E	232 S	8 720		283	81	1 980	6
7		430 B	216	8 020		405 A	270	10 400	18.0	282	70 S	1 710	7
8		463 B	246	9 840	12.0	487	227 S	9 550	15.0	285	61 S	1 500	8
9		473 B	277	11 300	11.0	524	206 S	9 330		307	63	1 670	9
10		488 B	308	13 000	12.0	530	218 S	9 980	15.7	302	75 S	1 960	10
11		516 B	339	15 100	16.0	508	218 S	9 570	17.0	292	82 S	2 070	11
12		577 B	368	18 300	15.0	482	234 S	9 740	17.0	284	138 S	3 390	12
13		681 B	396	23 300	14.0	452	231 S	9 020		275	166	3 940	13
14		893 B	456	35 200	14.0	434	230 S	8 620	17.0	263	169 S	3 840	14
15		1 000 B	597	51 600	14.0	425	248 S	9 110	19.0	255	134 S	2 950	15
16		1 080 B	897	83 700	14.0	431	227 S	8 450		243	103	2 160	16
17	1.0	1 190 B	1 210 S	124 000	14.0	454	188 S	7 370		237	91	1 860	17
18	3.0	1 310	1 030 S	117 000	13.0	486	175 S	7 350		229	81	1 600	18
19	3.0	1 260	962 S	105 000	14.0	494	168 S	7 170	18.0	220	71 S	1 350	19
20	4.0	1 220	778 S	82 000	15.0	527	168 S	7 650	20.0	213	58 S	1 070	20
21	5.0	1 190	625 S	64 300	16.0	539	168 S	7 820		203	51	894	21
22	5.0	1 200 A	517 S	53 600		557	184	8 850	20.0	193	49 S	817	22
23	8.0	1 180 A	473 S	48 200		552	212	10 100		181	46	719	23
24	7.5	1 170	358 S	36 200	16.0	540	225 S	10 500	19.0	175	37 S	559	24
25	7.0	1 160	383 S	38 400	17.0	515	222 S	9 880		172	46	684	25
26	9.0	1 150	374 S	37 200		484	199	8 320	19.0	168 A	91 S	1 320	26
27	9.0	1 130	340 S	33 200	19.0	469	158 S	5 970		161 E	65	904	27
28	10.0	1 080	295 S	27 500	18.0	421	136 S	4 950	18.0	154 E	49 S	652	28
29		979	262	22 200	18.0	392	179 S	6 060		148 E	44	563	29
30	11.0	911	242 S	19 000		371	204	6 540		137 E	43	509	30
31						358	164	5 020					31
TOTAL		24 408		1 097 020		15 360		270 400		7 221		52 621	TOTAL
MEAN		814		36 600		495		8 720		241		1 750	MEAN

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		134 E	41	475		183	78	1 230		71.1	22	135	1
2		129 E	40	446	23.0	169	92 S	1 340	18.0	69.9	20 S	121	2
3	23.0	125 E	39 S	421	25.0	158	89 S	1 210		68.8	20	119	3
4		123 E	39	414	24.3	152	87 S	1 140		67.5	22	128	4
5		128 E	38	420	25.0	147	82 S	1 040	16.0	65.2	27 S	152	5
6		159 E	38	522	25.0	141	77 S	938		63.6	31	170	6
7		170 E	41	602	25.0	136	65 S	764		62.8	31	168	7
8	22.0	178 A	41 S	631	22.0	130	61 S	685	20.0	61.7	27 S	144	8
9		183	43	680	21.0	127	68 S	746	18.0	60.9	22 S	116	9
10	29.0	184	47 S	747	22.0	123	77 S	818	19.0	58.3	18 S	90.7	10
11	25.0	179	66 S	1 020		118	81	826		57.0	18	88.6	11
12	25.0	167	92 S	1 330	20.0	112	81 S	784	18.0	57.0	22 S	108	12
13		157	100	1 360		107	72	666		55.8	26	125	13
14	22.0	147	83 S	1 050	24.0	106	55 S	504	17.0	57.3	29 S	144	14
15		142	85	1 040		103	51	454		65.0	38	160	15
16		136	97	1 140		101 A	54	471	17.0	64.5	25 S	139	16
17	23.0	135	109 S	1 270	25.0	99.3	56 S	480		59.8	23	119	17
18		133	87	1 000		96.8	60	502		63.1	22	120	18
19	23.0	137	52 S	616		95.3	64	527		64.6	24	134	19
20	23.0	142	52 S	638		92.3	68	542		63.1	29	158	20
21		147	50	635		90.5	72	563		62.6	33	178	21
22	23.0	160	22 S	304		89.1	75	577		64.1	34	188	22
23		166	21	301	22.0	79.0	76 S	584	17.0	64.5	34 S	189	23
24		173	46	688		84.8	58	425		64.1	35	194	24
25		186	62	996	20.0	80.8	36 S	25		63.2	34	186	25
26		211	65	1 180		76.8	28	186	14.0	64.5	33 S	184	26
27	25.0	224	66 S	1 280	18.0	73.7	22 S	140		64.4	32	178	27
28		219	72	1 360		71.4	21	130		66.7	30	173	28
29	24.0	218	79 S	1 490	18.0	69.2	28 S	167	13.0	69.8	28 S	169	29
30		210	77	1 400		68.4	30	177		71.3	25	154	30
31	24.0	199	72 S	1 240	19.0	70.0	25 S	151					31
TOTAL		5 101		26 696		3 360.4		19 018		1 912.2		4 440.3	TOTAL
MEAN		165		861		108		613		63.7		148	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		70.0	21	127	7.0	143	116 S	1 430		93.6 B	32	259	1
2		69.7	18	108		140	115	1 390		97.5 B	29	244	2
3	11.0	68.2	15 S	88.4		139	114	1 370		102 B	27	238	3
4		67.0	12	69.5		137 B	110	1 300		105 B	26	236	4
5		66.4	15	86.1		134 B	106	1 230		107 B	25	231	5
6		71.0	20	123		124 B	105	1 120		107 B	24	222	6
7	10.0	73.8	23 S	147		124 B	103	1 100		108 B	23	215	7
8		83.2	23	165		121 B	102	1 070		109 B	21	198	8
9		98.0	24	203	2.0	116 B	101 S	1 010		111 B	21	201	9
10		108	23	215		116 B	100	1 000		114 B	20	197	10
11	9.0	128	24 S	265		109 B	99	932		114 B	20	197	11
12		161	25	348		96.9 B	98	820		108 B	20	187	12
13		194	26	436		80.4 B	97	674		101 B	19	166	13
14		238	26	535		87.4 B	96	675	0.5	94.1 B	19 S	154	14
15		278	27	649		85.9 B	94	698		88.8 B	18	138	15
16		285	31	763		82.1 B	91	646		86.2 B	18	139	16
17		285	54	1 330		83.7 B	89	644		84.7 B	18	132	17
18	6.0	273	116 S	2 740		86.3 B	88	656		83.8 B	17	123	18
19	7.0	253	193 S	4 220		86.8 B	85	637		82.6 B	17	121	19
20		233	159	3 200		87.3 B	82	619		80.8 B	16	112	20
21		216	128	2 390		100 B	77	665		78.8 B	16	109	21
22	6.0	201	120 S	2 080		103 B	73	650		78.4 B	16	108	22
23		190	120	1 970		104 B	68	611		78.6 B	16	109	23
24		184	121	1 920		103 B	64	570		78.0 B	16	108	24
25	7.0	179	122 S	1 890		99.5 B	59	507		77.6 B	15	101	25
26		174	120	1 800		92.0 B	54	429		76.3 B	16	105	26
27		167	118	1 700		88.0 B	50	380		74.9 B	15	97.1	27
28	8.0	161	117 S	1 630		87.5 B	45	340		73.7 B	14	89.1	28
29		156	116	1 560		87.1 B	41	309		72.7 B	14	87.9	29
30		150	116	1 500		89.2 B	37	285		70.7 B	14	85.5	30
31		146	116	1 460						70.1 B	14	84.8	31
TOTAL		5 027.3		35 718.0		3 127.1		23 767		2 807.9		4 789.4	TOTAL
MEAN		162		1 150		104		792		90.6		154	MEAN

SUMMARY FOR THE YEAR 1982

TOTAL SUSPENDED SEDIMENT LOAD 1 540 116.1 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	285	
MAXIMUM DAILY	1 210	ON APR 17
MINIMUM DAILY	6	ON FEB 18

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	4 220	
MAXIMUM DAILY	124 000	ON APR 17
MINIMUM DAILY	22.1	ON FEB 18

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 06 28 N
LONG 96 55 54 W
DRAINAGE AREA 287 000 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 17	11:30	1 190 M	1.0	210 K	39	51	70	85	92	97	99	100				BNW
APR 18	13:00	1 310 M	3.0	1 040 R	41	51	67	83	90	95	98	99	100			BNW
APR 18	18:00	1 310 M	3.0	1 070 K	34	45	64	81	91	96	99	100				BNW
APR 20	18:10	1 220 M	4.0	789 K	43	53	71	85	92	96	99	100				BNW
APR 22	07:40	1 200 M	5.0	604 K	46	56	74	88	90	95	99	100				BNW
APR 23	15:00	1 180 M	8.0	598 K	16	20	38	73	96	98	99	100				BNW
APR 24	18:50	1 170 M	8.0	455 K	44	56	74	86	91	94	96	100				BNW
APR 26	17:30	1 150 M	9.0	384 K	48	55	74	86	94	96	99	100				BNW
MAY 29	16:20	392 M	18.0	231 K	37	49	71	93	97	98	99	100				BNW

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0.312 B	9	0.24	1
2										0.312 B	9	0.24	2
3										0.312 B	9	0.24	3
4										0.312 B	9	0.24	4
5										0.312 B	9	0.24	5
6										0.312 B	9	0.24	6
7										0.312 B	9	0.24	7
8										0.312 B	9	0.24	8
9									0.5	0.312 B	9 S	0.24	9
10										0.322 B	9	0.25	10
11										0.314 B	9	0.24	11
12										0.314 B	9	0.24	12
13										0.319 B	9	0.25	13
14										0.314 B	9	0.24	14
15										0.321 B	9	0.25	15
16										0.317 B	10	0.27	16
17										0.319 B	10	0.23	17
18										0.318 B	9	0.25	18
19										0.306 F	9	0.24	19
20										0.318 B	9	0.25	20
21										0.325 B	10	0.28	21
22										0.314 B	9	0.24	22
23										0.307 B	9	0.24	23
24										0.303 B	9	0.24	24
25										0.291 B	8	0.20	25
26										0.286 B	9	0.22	26
27										0.288 B	9	0.22	27
28										0.311 B	8	0.21	28
29										0.406 B	8	0.28	29
30										3.33 B	7	2.01	30
31									0.5	8.32 B	6 S	4.31	31
TOTAL										20.771		13.37	TOTAL
MEAN										0.670		0.43	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		7.97 B	9	6.20		46.4	27	108		15.3	9 S	11.9	1
2		10.5 B	14	12.7	14.4	46.8	35 S	142		13.7	9 S	10.7	2
3		7.28 B	18	11.3	17.5	46.9 A	30 S	122		12.2	8 S	8.43	3
4		7.88 B	22	15.0	17.2	47.2 A	26 S	106		10.5	8 S	7.26	4
5		15.1 B	29	37.8	15.0	45.9 A	23 S	91.2		9.28	9	7.22	5
6		24.5 B	42	88.9	13.3	45.7 A	21 S	82.9		8.53	10	7.37	6
7		22.2 B	43	82.5		45.1 E	19	74.0		9.40	10 S	8.12	7
8		20.3 B	38	66.6		44.5 E	18	69.2		8.54	10	7.38	8
9		19.3 B	35	58.4		43.9 E	18	68.3		9.66	10	8.35	9
10		18.8 B	36	58.5	10.0	43.3 A	17 S	63.6		10.9	10 S	9.42	10
11		19.3 B	35	58.4	10.8	42.1 A	18 S	65.5		11.1	12	11.5	11
12		21.9 B	35	66.2	12.8	40.9 A	21 S	74.2		11.7	11	11.1	12
13		24.4 B	37	78.0	12.5	40.0 A	18 S	62.2		12.2	11 S	11.6	13
14	0.5	30.2 B	57 S	149	12.8	38.8 A	14 S	46.9	18.0	12.1	11 S	11.5	14
15		36.1 B	80	250	13.3	38.0 A	15 S	49.2		11.0	12	11.4	15
16		31.5	73	199		37.5 E	15	48.6		10.1	12	10.5	16
17	7.8	39.2	73 S	247		37.0 E	17	54.3		9.25	10	7.99	17
18	7.8	38.5	63 S	210	14.0	36.5 A	17 S	53.6		8.36	9	6.50	18
19	6.6	37.1	54 S	173		35.5	15 S	46.0		7.68	8	5.31	19
20	7.8	36.6	42 S	133		34.2	15 S	44.3	16.0	7.23	7 S	4.37	20
21	7.5	36.5	36 S	114		32.8	14 S	39.7	14.0	6.68	7 S	4.04	21
22		36.7	40	127		31.3	16	43.3	17.0	6.42	6 S	3.33	22
23	11.1	37.6	38 S	123		30.1	17	44.2		6.25	6	3.24	23
24		39.0	37 S	125		29.3	16 S	40.5	20.0	5.73	8 S	3.96	24
25		40.1	37 S	128		28.2	14 S	34.1		5.18	8	3.58	25
26		41.6	30 S	108		26.9	15 S	34.9		4.67	7	2.82	26
27	10.9	43.0	36 S	134		25.4	13 S	28.5	21.0	4.10	5 S	1.77	27
28	12.0	44.3	39 S	149		23.5	13	26.4		4.31	4	1.49	28
29	11.2	45.3	41 S	160		21.3	13	23.9		5.72	5	2.47	29
30	12.0	45.8	34 S	135		19.0	12	19.7	22.0	5.99	7 S	3.62	30
31						17.0	11 S	16.2					31
TOTAL		878.49		3 304.50		1 121.0		1 823.4		263.78		208.24	TOTAL
MEAN		29.3		110		36.2		58.8		8.79		6.94	MEAN

MANITOBA

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		5.78	8	4.00	22.0	5.95	22 S	11.3	16.0	2.48	9 S	1.93	1
2		6.09	7	3.68	23.0	6.33	23 S	12.6		2.40	9	1.87	2
3	29.0	6.29	5 S	2.72	26.0	6.31	23 S	12.5		2.27	8	1.57	3
4		6.30	5	2.72		5.90	24	12.2	19.0	2.16	7 S	1.31	4
5	23.0	6.79	7 S	4.11		5.45	23	10.8		2.03	7	1.23	5
6		10.0	12	10.4	24.0	5.25	23 S	10.4	17.0	1.92	7 S	1.16	6
7	21.0	12.8	16 S	17.7		4.69	20	8.10		1.83	7	1.11	7
8	22.0	14.4	18 S	22.4		4.12	18	6.41		1.70	8	1.18	8
9		15.6	20	27.0		3.99	20	6.89		1.54	8	1.06	9
10		15.9	21	28.8		4.53	22	8.61		1.38	9	1.07	10
11	22.0	15.3	18 S	23.8		4.94	22	9.39		1.25	9 S	0.97	11
12		14.1	15	18.3		4.89	21	8.87		1.16	9	0.90	12
13		12.7	14	15.4		4.52	19	7.42		1.15	9	0.89	13
14		11.3	16	15.6		4.06	18	6.31		1.11	7 S	0.67	14
15	25.0	10.1	16 S	14.0		3.59	17	5.27		1.04	7	0.63	15
16		9.09	15	11.8		3.10	15	4.02		0.967	8	0.67	16
17	22.0	8.12	15 S	10.5		2.71	14	3.28		0.894	8	0.62	17
18		6.72	14	8.13	25.0	2.37	14 S	2.87		0.842	8	0.58	18
19	22.0	5.81	14 S	7.03	26.0	1.93	12 S	2.00		0.808	8	0.56	19
20		4.96	15	6.43		1.66	10	1.43		0.790	8	0.55	20
21	23.5	4.34	18 S	6.75		1.69	8	1.17		0.755	8	0.52	21
22		3.93	16	5.43	21.0	2.52	10 S	2.18		0.747	9	0.58	22
23	24.0	3.59	17 S	5.27		2.98	12	3.09		0.752	10	0.65	23
24		4.11	19	6.75	18.0	2.89	14 S	3.50		0.711	10	0.61	24
25		6.72	25	14.5	19.0	2.77	9 S	2.15		0.694	10	0.60	25
26		7.46	25	16.1		2.64	7	1.60		0.728	9	0.57	26
27	23.5	7.48	24 S	15.5	16.0	2.56	7 S	1.55		0.766	8	0.53	27
28		6.84	22	13.0		2.43	7	1.47		0.940	9	0.73	28
29		6.07	21	11.0		2.37	8	1.64		1.05	8	0.73	29
30	23.0	5.73	20 S	9.90	16.0	2.39	9 S	1.86		1.06	10	0.92	30
31		5.55	20	9.59	16.0	2.45	9 S	1.91					31
TOTAL		259.97		368.31		113.98		172.79		37.924		26.97	TOTAL
MEAN		8.39		11.9		3.68		5.57		1.26		0.90	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.04	11	0.99									1
2		2.02	15	2.62									2
3		2.91	20	5.03									3
4		3.93	24	8.15									4
5		5.27	30	13.7									5
6		6.63	35	20.0									6
7		7.84	43	29.1									7
8		9.25	48	38.4									8
9		12.3	50	53.1									9
10		15.6	43	58.0									10
11		17.9	37	57.2									11
12		19.7	34	57.9									12
13		21.1	30	54.7									13
14		22.3	27	52.0									14
15		23.0	27	53.7									15
16		23.7	27	55.3									16
17		24.2	26	54.4									17
18		24.5	25	52.9									18
19		24.6	24	51.0									19
20		24.6	21	44.6									20
21		24.5	20	42.3									21
22		24.3	19	39.9									22
23		24.2	18	37.6									23
24		24.0	16	33.2									24
25	7.0	23.6	15 S	30.6									25
26		23.1	15	29.9									26
27	7.0	22.4	15 S	29.0									27
28		21.7	15	28.1									28
29		20.9	14	25.3									29
30		19.6	14	23.7									30
31		18.4	14	22.3									31
TOTAL		539.09		1 104.69									TOTAL
MEAN		17.4		35.8									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	25	
MAXIMUM DAILY	80	ON APR 15
MINIMUM DAILY	4	ON JUN 28

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	28.7	
MAXIMUM DAILY	250	ON APR 15
MINIMUM DAILY	0.20	ON MAR 25

TOTAL SUSPENDED SEDIMENT LOAD 7 022.27 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 16 N
LONG 96 41 15 W
DRAINAGE AREA 4 430 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.699 B	10	0.60		0.404 B	13	0.45		0.837 B	13	0.94	1
2		0.759 B	11	0.72		0.392 B	13	0.44		0.814 B	13	0.91	2
3		0.800 B	13	0.90		0.377 B	12	0.39		0.782 B	12	0.81	3
4		0.860 B	15	1.11		0.365 B	12	0.38		0.750 B	11	0.71	4
5		0.874 B	17	1.28		0.364 B	11	0.35		0.704 B	11	0.67	5
6		0.828 B	19	1.36		0.363 B	11	0.34		0.662 B	10	0.57	6
7	0.5	0.699 B	20 S	1.21		0.359 B	11	0.34		0.611 B	9	0.48	7
8		0.618 B	20	1.07		0.350 B	12	0.36		0.533 B	7	0.32	8
9		0.571 B	19	0.94		0.339 B	12	0.35		0.452 B	6	0.23	9
10		0.569 B	19	0.93	0.5	0.329 B	9 S	0.26		0.430 B	6	0.22	10
11		0.567 B	17	0.83		0.319 B	9	0.25	0.5	0.417 B	6 S	0.22	11
12		0.568 B	17	0.83		0.311 B	8	0.21		0.412 B	7	0.25	12
13		0.567 B	17	0.83		0.302 B	8	0.21		0.483 B	9	0.38	13
14		0.570 B	16	0.79		0.293 B	8	0.20		0.607 B	10	0.52	14
15		0.571 B	17	0.84		0.278 B	7	0.17		0.879 B	13	0.99	15
16		0.553 B	17	0.81		0.267 B	7	0.16		0.996 B	13	1.12	16
17		0.532 B	16	0.74		0.257 B	7	0.16		1.22 B	14	1.48	17
18		0.528 B	16	0.73		0.461 B	10	0.40		1.87 B	17	2.75	18
19		0.528 B	16	0.73		0.869 B	12	0.90		2.01 B	15	2.60	19
20		0.531 B	16	0.73		0.846 B	12	0.88		1.81 B	15	2.35	20
21		0.532 B	15	0.69		0.879 B	13	0.99		1.65 B	14	2.00	21
22		0.526 B	15	0.68		0.934 B	13	1.05		1.69 B	15	2.19	22
23		0.511 B	15	0.66		0.979 B	13	1.10		2.11 B	17	3.10	23
24		0.515 B	15	0.67		0.979 B	14	1.18		2.06 B	16	2.85	24
25		0.518 B	17	0.76		0.984 B	14	1.19		1.88 B	15	2.44	25
26		0.507 B	16	0.70		1.00 B	15	1.30		1.82 B	15	2.36	26
27		0.474 B	14	0.57		0.962 B	14	1.16		1.78 B	15	2.31	27
28		0.456 B	14	0.55		0.897 B	14	1.09		1.76 B	15	2.28	28
29		0.443 B	14	0.54						2.09 B	16	2.89	29
30		0.441 B	14	0.53						6.37 B	25	13.8	30
31		0.424 B	13	0.48					0.5	20.5 B	42 S	74.4	31
TOTAL		18.139		24.81		15.459		16.26		60.989		129.14	TOTAL
MEAN		0.585		0.80		0.552		0.58		1.97		4.17	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		21.1 B	45	82.0	11.0	49.3	97 S	413	12.0	18.3	33 S	52.2	1
2		17.9 B	37	57.2	12.0	49.6	102 S	437	12.0	16.7	35 S	50.5	2
3		11.6 B	29	29.1	14.0	49.8	98 S	422	14.0	15.1	29 S	37.6	3
4		8.67 B	25	18.7	16.0	50.0	94 S	406	15.0	13.5 A	30 S	35.0	4
5		8.56 B	25	18.5	9.0	49.5	87 S	372	15.0	11.9 A	26 S	26.7	5
6		8.84 B	26	19.9	8.0	48.7	80 S	337	14.0	11.1 A	25 S	24.0	6
7		14.8 B	30	38.4	9.0	48.1	69 S	287	14.0	11.1 A	30 S	28.8	7
8		16.6 B	34	48.8	9.0	47.3	60 S	245	12.0	16.2 A	37 S	51.8	8
9		15.1 B	33	43.1	9.0	47.3	62 S	253		15.9 A	38	52.2	9
10		14.4 B	31	38.6	9.0	47.4	61 S	250		16.7 E	38	54.8	10
11		14.1 B	29	35.3	9.0	47.1	57 S	232		16.5 E	35	49.9	11
12		17.5 B	36	54.4	10.0	46.1	56 S	223		16.3 E	33	46.5	12
13		21.6 B	45	84.0	11.0	45.0	55 S	214		16.7 E	30	43.3	13
14		23.8 B	51	105	12.0	43.9	58 S	220		16.8 E	28	40.6	14
15	0.5	26.5 B	92 S	211	12.0	43.0	53 S	197		15.6 A	29	39.1	15
16	1.0	33.9 B	198 S	580	13.0	42.3	53 S	194		13.9	26	31.2	16
17	2.0	38.8 B	199 S	667	13.0	42.1	48 S	175		12.5	24	25.9	17
18		46.7 B	179	722	13.0	42.8	56 S	207		11.0	21	20.0	18
19	6.5	47.0	172 S	698	12.0	42.1	56 S	204		9.93	18	15.4	19
20	8.0	45.3	142 S	556	12.0	39.6	50 S	171		9.41	18	14.6	20
21	6.0	44.6	130 S	501	13.0	37.7	47 S	153		8.86	17	13.0	21
22	7.0	44.2	122 S	466	14.0	35.9	47 S	146		8.03	15	10.4	22
23	8.0	44.0	118 S	449	15.0	34.0	47 S	138		7.42	15	9.62	23
24	10.0	44.5	126 S	484	16.0	32.3	43 S	120		7.02	19	11.5	24
25		45.0	130	505	17.0	31.4	40 S	109		6.31	20	10.9	25
26	9.0	45.4	117 S	459	18.0	30.2	41 S	107		5.70	17	8.37	26
27	10.0	46.4	102 S	409	19.0	28.7	42 S	104		5.15	13	5.78	27
28	9.0	47.4	99 S	405	20.0	26.9	43 S	99.9		4.51	7	2.73	28
29	9.0	48.2	109 S	454	20.0	24.7	41 S	87.5		4.55	6	2.36	29
30	9.0	48.9	101 S	427	18.0	22.5	36 S	70.0		5.84	16	8.07	30
31					14.0	20.3	34 S	59.6					31
TOTAL		911.37		8 666.0		1 245.6		6 653.0		348.53		823.03	TOTAL
MEAN		30.4		289		40.2		215		11.6		27.4	MEAN

MANITOBA

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		6.06	18	9.42	21.0	5.46	32 S	15.1		2.80	12	2.90	1
2		5.89	17	8.65		5.43	31	14.5	13.0	2.82	11 S	2.68	2
3		6.62	18	10.3	21.0	5.57	31 S	14.9		2.76	11	2.62	3
4		6.42	17	9.43		5.51	31	14.8		2.61	11	2.48	4
5		7.71	17	11.3	22.0	5.11	29 S	12.8		2.57	11	2.44	5
6		10.7	31	28.7		5.54	30	14.4	14.0	2.46	10 S	2.13	6
7	20.0	13.4	48 S	55.6	23.0	5.39	27 S	12.6		2.36	10	2.04	7
8	19.0	14.9	45 S	57.9		4.65	24	9.64		2.27	11	2.16	8
9		16.1	46	64.0		4.05	23	8.05	19.0	2.20	11 S	2.09	9
10	20.0	16.8	45 S	65.3	17.0	3.72	21 S	6.75		2.14	10	1.85	10
11		16.6	42	60.2		3.86	22	7.34		2.03	8	1.40	11
12	22.0	15.7	39 S	52.9	18.0	4.12	25 S	8.90	16.0	1.94	7 S	1.17	12
13		14.4	37	46.0		4.18	25	9.03		1.86	7	1.12	13
14	20.0	13.0	34 S	38.2	19.0	3.97	24 S	8.23		1.80	7	1.09	14
15		11.5	34	33.8		3.71	22	7.05		1.78	7	1.08	15
16	22.0	10.2	33 S	29.1		3.47	22	6.60		1.78	7	1.08	16
17		10.1	37	32.3	20.0	2.98	22 S	5.66	11.0	1.81	7 S	1.09	17
18		8.41	33	24.0		3.09	28	7.48		1.78	8	1.23	18
19	20.0	6.85	28 S	16.6	22.0	3.68	36 S	11.4		1.77	8	1.22	19
20		5.90	31	15.8		3.36	33	9.58		1.74	8	1.20	20
21	22.0	5.34	36 S	16.6		3.00	26	6.74	8.0	1.67	8 S	1.15	21
22		4.44	30	11.5	20.0	2.96	23 S	5.88		1.60	8	1.11	22
23	21.0	4.01	32 S	11.1		3.32	26	7.46	12.0	1.56	14 S	1.89	23
24	22.0	8.89	144 S	111		3.73	26	8.38		1.52	13	1.71	24
25		10.9	111	105	16.0	3.65	16 S	5.05	9.0	1.42	10 S	1.23	25
26	21.0	11.2	63 S	61.0		3.40	16	4.70		1.33	10	1.15	26
27		10.2	53	46.7		3.20	14	3.87		1.26	9	0.98	27
28	22.0	9.00	44 S	34.2	12.0	3.00	12 S	3.11		1.41	8	0.97	28
29		8.01	38	26.3		2.88	13	3.23	9.0	1.34	8 S	0.93	29
30	21.0	6.88	36 S	21.4	13.0	2.79	16 S	3.86		1.02	10	0.88	30
31		5.97	35	18.1		2.80	14	3.39					31
TOTAL		302.10		1 132.40		121.58		260.48		57.41		47.07	TOTAL
MEAN		9.75		36.5		3.92		8.40		1.91		1.57	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	7.0	0.983	11 S	0.93		19.1	32	52.8		5.21 B	19	8.55	1
2		1.10	10	0.95	4.0	18.0	31 S	48.2		6.49 B	19	10.7	2
3	7.0	1.27	10 S	1.10	0.5	17.1	29 S	42.8		10.7 B	21	19.4	3
4		1.97	19	3.23		15.5	28	37.5		11.8 B	22	22.4	4
5		2.69	28	6.51		14.1	27	32.9		10.9 B	20	18.8	5
6		3.59	42	13.0	0.5	13.6	27 S	31.7		8.76 B	16	12.1	6
7	6.0	8.41	132 S	95.9		12.9	24	26.7		7.39 B	16	10.2	7
8		10.0	218	188	0.5	11.9	22 S	22.6		6.35 B	16	8.78	8
9	8.0	11.6	396 S	397		10.7 B	22	20.3		6.02 B	15	7.80	9
10		16.3	163	230		11.6 B	22	22.0		6.08 B	14	7.35	10
11	7.0	21.6	87 S	162	1.0	9.68 B	22 S	18.4		5.43 B	12	5.63	11
12		24.1	71	148		10.3 B	22	19.6		4.67 B	11	4.44	12
13		25.1	66	143		9.56 B	20	16.5		4.14 B	10	3.58	13
14	7.0	25.3	63 S	138		7.87 B	19	12.9		3.71 B	10	3.21	14
15		25.4	63	138		10.9 B	19	17.9		3.31 B	9	2.57	15
16		25.7	61	135		11.4 B	19	18.7		3.01 B	9	2.34	16
17	7.0	26.2	60 S	136		9.18 B	18	14.3		2.88 B	9	2.24	17
18		26.4	58	132		7.07 B	18	11.0		2.73 B	9	2.12	18
19		26.4	52	119	0.5	6.55 B	17 S	9.62		2.59 B	8	1.79	19
20	4.0	26.5	50 S	114		7.05 B	18	11.0		2.48 B	8	1.71	20
21		26.4	47	107		5.88 B	18	9.14		2.35 B	7	1.42	21
22		26.3	44	100.0		5.49 B	17	8.06	0.5	2.30 B	7 S	1.39	22
23	4.0	26.1	39 S	87.9		4.20 B	17	6.17		2.28 B	7	1.38	23
24		25.8	37	82.5		5.94 B	18	9.24		2.20 B	7	1.33	24
25	5.0	25.4	41 S	90.0		6.70 B	18	10.4		2.07 B	7	1.25	25
26		24.9	42	90.4		6.54 B	17	9.61		1.98 B	7	1.20	26
27		24.3	41	86.1		6.26 B	17	9.19		1.92 B	7	1.16	27
28	7.0	23.4	39 S	78.8		6.26 B	16	8.65		1.85 B	7	1.12	28
29		22.6	35	68.3		5.98 B	16	8.27		1.73 B	7	1.05	29
30	5.0	21.5	33 S	61.3		5.56 B	17	8.17		1.64 B	7	0.99	30
31		20.3	32	56.1						1.55 B	7	0.94	31
TOTAL		577.613		3 210.02		292.87		574.32		136.52		168.94	TOTAL
MEAN		18.6		104		9.76		19.1		4.40		5.45	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	61	
MAXIMUM DAILY	396	ON OCT 09
MINIMUM DAILY	6	ON MAR 09

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	59.5	
MAXIMUM DAILY	722	ON APR 18
MINIMUM DAILY	0.16	ON FEB 16

TOTAL SUSPENDED SEDIMENT LOAD 21 705.47 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 11 53 N
LONG 97 03 15 W
DRAINAGE AREA 5 150 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		265 B	34	778		455 B	21	826		484 B	18	753	1
2		294 B	29	737		459 B	22	872		470 B	19	772	2
3	0.5	319 B	23 S	634		458 B	23	910		468 B	18	722	3
4		321 B	22	610		462 B	22	878		465 B	18	723	4
5		312 B	22	593		470 B	22	893	0.5	471 B	18 S	732	5
6		308 B	22	585		478 B	22	909		474 B	18	737	6
7		312 B	22	593	0.5	483 B	22 S	918		473 B	18	736	7
8		318 B	21	577		478 B	23	950		466 B	18	725	8
9		322 B	22	612		465 B	23	924		459 B	18	714	9
10		323 B	22	614		459 B	22	872		457 B	18	711	10
11		327 B	23	650		468 B	22	890		447 B	18	695	11
12		336 B	23	668		475 B	21	862		435 B	18	677	12
13		365 B	23	725		478 B	20	826		422 B	17	620	13
14		392 B	23	779	0.5	487 B	20 S	842	0.5	409 B	17 S	601	14
15		396 B	23	787		496 B	20	857		401 B	16	554	15
16		386 B	23	767		498 B	19	818		387 B	15	502	16
17		377 B	23	749		497 B	19	816		376 B	15	487	17
18		382 B	24	792		493 B	18	767		374 B	15	485	18
19		389 B	23	773		480 B	18	746		380 B	14	460	19
20		396 B	23	787		474 B	18	737		395 B	14	478	20
21		410 B	24	850	0.5	483 B	17 S	709	0.5	406 B	14 S	491	21
22		424 B	24	879		486 B	17	714		405 B	14	490	22
23		432 B	24	896		480 B	17	705		394 B	14	477	23
24	0.5	439 B	25 S	948		488 B	17	717		386 B	14	467	24
25		444 B	24	921		504 B	17	740		397 B	14	480	25
26		450 B	24	933		510 B	17	749		416 B	14	503	26
27		458 B	23	910		500 B	17	734		434 B	14	525	27
28		460 B	22	874	0.5	491 B	18 S	764	0.5	450 B	14 S	544	28
29		455 B	22	865						466 B	14	564	29
30		453 B	21	822						479 B	14	579	30
31	0.5	449 B	21 S	815						484 B	14	585	31
TOTAL		11 714		23 523		13 455		22 945		13 426		18 589	TOTAL
MEAN		378		759		481		819		433		600	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		483 B	14	584	4.5	1 320	214 S	24 400	8.5	597	133 S	6 860	1
2		485 B	15	629	5.0	1 180	189 S	19 300	10.0	586	104 S	5 270	2
3		484 B	14	585	3.0	1 180	172 S	17 500	12.0	614	108 S	5 730	3
4	0.5	475 B	14 S	575	7.0	1 190	168 S	17 300	11.5	640	100 S	5 530	4
5		465 B	14	562	7.0	1 160	154 S	15 400	15.0	665	122 S	7 010	5
6		456 B	15	591	5.5	1 100	138 S	13 100	15.0	682	108 S	6 360	6
7		449 B	15	582	4.5	1 130	133 S	13 000	15.0	665	101 S	5 800	7
8		443 B	16	612	3.0	1 130	127 S	12 400	15.0	651	91 S	5 120	8
9		428 B	18	666	3.5	1 070	145 S	13 400	14.5	640	96 S	5 310	9
10		404 B	19	663	3.5	1 030	122 S	10 900	14.0	648	111 S	6 210	10
11	0.5	382 B	19 S	627	4.5	968	87 S	7 280	15.0	660	102 S	5 820	11
12		361 B	19	593	6.5	929	73 S	5 860	16 0	660	87 S	4 960	12
13		348 B	17	511	8.5	881	76 S	5 780		648	77	4 310	13
14		342 B	15	443	10.0	872	72 S	5 420	17.5	665	71 S	4 080	14
15		343 B	13	385	9.5	881	78 S	5 940	17.5	663	73 S	4 180	15
16		347 B	11	330	10.5	883	84 S	6 410	19.0	629	75 S	4 080	16
17		358 B	9	278	11.0	858	88 S	6 520	17.5	660	81 S	4 620	17
18	0.5	380 B	9 S	295	10.0	810	99 S	6 930	17.5	651	79 S	4 440	18
19		416 B	20	719	9.0	776	86 S	5 770	17.0	617	86 S	4 580	19
20		464 B	33	1 320	9.0	765	66 S	4 360	16.5	600	68 S	3 530	20
21		501 B	47	2 030	9.5	748	84 S	5 430	18.0	575	56 S	2 780	21
22		544 B	60	2 820	10.0	719	74 S	4 600	18.5	586	89 S	4 510	22
23	0.5	606 B	73 S	3 820		705	63	3 840	18.5	623	99 S	5 330	23
24		674 B	91	5 300	13.5	677	55 S	3 220	18.5	646	96 S	5 360	24
25		793 B	110	7 540	15.0	634	53 S	2 900	18.5	586	67 S	3 390	25
26		926 B	129	10 300	16.5	606	55 S	2 880	18.5	549	92 S	4 360	26
27	1	060 B	147	13 500	16.5	606	55 S	2 880	19.0	549	98 S	4 650	27
28	1	280 B	164	18 100	16.5	663	67 S	3 840	19.0	547	78 S	3 690	28
29	1	470 B	181	23 000	10.0	668	83 S	4 790	20.0	530	83 S	3 800	29
30	1	460	198	25 000	10.0	685	131 S	7 750	20.0	510	87 S	3 830	30
31					8.5	637	130 S	7 150					31
TOTAL	17	627		122 960		27 461		266 250		18 542		145 500	TOTAL
MEAN		588		4 100		886		8 590		618		4 850	MEAN

MANITOBA

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	20.5	513	95 S	4 210	20.5	779	111 S	7 470		396	124	4 240	1
2	20.5	518	106 S	4 740	19.0	776	118 S	7 910	12.5	399	130 S	4 480	2
3	19.5	535	102 S	4 710	18.5	750	148 S	9 590		413	119	4 250	3
4	20.0	501	113 S	4 890	17.5	682	234 S	13 800		428	102	3 770	4
5	18.5	419	120 S	4 340	18.0	648	264 S	14 800		445	88	3 380	5
6	18.5	428	130 S	4 810	19.5	671	152 S	8 810		439	73	2 770	6
7	19.5	462	141 S	5 630		694	118	7 080	19.5	382	65 S	2 150	7
8	19.5	479	142 S	5 880	20.5	674	120 S	6 990		354	72	2 200	8
9	19.5	541	155 S	7 250		660	165	9 410	9.5	365	80 S	2 520	9
10	19.5	600	153 S	7 930	18.0	572	232 S	11 500		411	81	2 880	10
11	20.5	629	149 S	8 100	18.0	555	254 S	12 200		408	82	2 890	11
12	21.5	657	144 S	8 170		572	191	9 440	10.5	388	83 S	2 780	12
13	20.0	702	157 S	9 520	20.0	589	115 S	5 850		371	88	2 820	13
14	20.0	728	169 S	10 600	20.5	609	126 S	6 630		371	93	2 980	14
15		776	175	11 700		612	124	6 560	12.0	351	98 S	2 970	15
16	19.5	801	181 S	12 500	20.5	572	132 S	6 520		320	96	2 650	16
17	20.0	810	181 S	12 700	21.0	527	140 S	6 370		343	92	2 730	17
18	19.5	855	187 S	13 800	21.0	496	207 S	8 870		362	88	2 750	18
19	20.0	833	231 S	16 600	22.0	490	135 S	5 720		379	83	2 720	19
20	19.5	824	184 S	13 100	22.5	487	78 S	3 280	11.0	385	80 S	2 660	20
21	20.0	824	143 S	10 200		476	78	3 210		348	82	2 470	21
22	20.0	827	169 S	12 100	21.0	462	78 S	3 110		320	84	2 320	22
23	19.5	810	149 S	10 400		442	74	2 830	12.5	331	88 S	2 520	23
24	20.0	784	130 S	8 810	19.5	396	71 S	2 430		368	97	3 080	24
25		784	129	8 740		408	70	2 470		377	105	3 420	25
26	20.5	807	131 S	9 130		396	84	2 870		360	113	3 510	26
27	21.5	813	118 S	8 290	14.5	379	103 S	3 370		396	121	4 140	27
28	21.0	804	106 S	7 360		399	107	3 690		405	128	4 480	28
29	21.5	796	105 S	7 220	11.5	385	103 S	4 430	9.0	453	138 S	5 400	29
30	21.5	765	100 S	6 610		354	107	3 270		445	154	5 920	30
31	21.0	731	103 S	6 510	11.5	388	116 S	3 890					31
TOTAL		21 356		266 550		16 900		203 370		11 513		97 850	TOTAL
MEAN		689		8 600		545		6 560		384		3 260	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		394	163	5 550		456	132	5 200		234 B	15	303	1
2		345	168	5 010		447	142	5 480		236 B	14	285	2
3		354	166	5 080		413	150	5 350		247 B	13	277	3
4	5.0	416	161 S	5 790		388	155	5 200		254 B	13	285	4
5		422	152	5 540	0.5	399	158 S	5 450		249 B	13	280	5
6		382	142	4 690		377 B	150	4 890		234 B	13	263	6
7	4.0	385	131 S	4 360		379 B	130	4 260		220 B	13	247	7
8		402	116	4 030		379 B	98	3 210		213 B	13	239	8
9		411	102	3 620		379 B	59	1 930		217 B	12	225	9
10		402	89	3 090	0.5	385 B	36 S	1 200		222 B	12	230	10
11		405	74	2 590		388 B	31	1 040		228 B	11	217	11
12		379	59	1 930		388 B	29	972		234 B	11	222	12
13	5.0	371	46 S	1 470		391 B	28	946	0.5	243 B	10 S	210	13
14		362	50	1 560		388 B	25	838		246 B	10	213	14
15		362	65	2 030		388 B	23	771	0.5	241 B	11 S	229	15
16		382	87	2 870		379 B	21	688		242 B	12	251	16
17		442	112	4 280		354 B	20	612		248 B	13	279	17
18	3.5	487	141 S	5 930	0.5	328 B	17 S	482		281 B	14	340	18
19		487	180	7 570		306 B	17	449		321 B	13	361	19
20		439	235	8 910		282 B	17	414		334 B	15	433	20
21		422	304	11 100		261 B	17	383		327 B	15	424	21
22	3.5	467	363 S	14 600		234 B	17	344		319 B	17	469	22
23		515	351	15 600		215 B	16	297	0.5	315 B	16 S	435	23
24		504	262	11 400		204 B	16	282		309 B	16	427	24
25		456	147	5 790	0.5	204 B	17 S	300		305 B	16	422	25
26	5.5	413	62 S	2 210		206 B	16	285		302 B	16	417	26
27		396	52	1 780		214 B	16	296		299 B	16	413	27
28		379	66	2 160		222 B	16	307		295 B	16	408	28
29	3.5	388	85 S	2 850		230 B	16	318		291 B	16	402	29
30		394	103	3 510		235 B	15	305		293 B	16	405	30
31	1.0	416	118 S	4 240						294 B	14	356	31
TOTAL		12 779		161 140		9 819		52 499		8 293		9 967	TOTAL
MEAN		412		5 200		327		1 750		268		322	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	88
MAXIMUM DAILY	363 ON OCT 22
MINIMUM DAILY	9 ON APR 17

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	3 810
MAXIMUM DAILY	25 000 ON APR 30
MINIMUM DAILY	210 ON DEC 13

TOTAL SUSPENDED SEDIMENT LOAD 1 391 183 t

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 50 30 N
LONG 101 11 10 W
DRAINAGE AREA 347 000 km^2
REGULATED FLOW

SOURIS RIVER AT WAWANESA - STATION No. 05NG001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.150 B	5	0.06		0.164 B	92	1.30		0.187 B	82	1.04	1
2		0.133 B	6	0.07		0.163 B	93	1.31		0.155 B	78	1.04	2
3		0.106 B	9	0.08		0.181 B	93	1.45		0.159 B	75	1.03	3
4		0.102 B	15	0.13		0.184 B	93	1.48		0.158 B	72	0.98	4
5		0.152 B	21	0.28		0.186 B	92	1.48		0.147 B	68	0.86	5
6		0.167 B	29	0.42		0.188 B	92	1.49		0.138 B	64	0.76	6
7		0.180 B	41	0.64		0.146 B	92	1.16		0.137 B	61	0.72	7
8		0.178 B	55	0.85		0.138 B	92	1.10		0.139 B	59	0.71	8
9		0.175 B	68	1.03		0.148 B	92	1.18		0.127 B	56	0.61	9
10		0.151 B	79	1.03		0.162 B	92	1.29		0.105 B	53	0.48	10
11		0.147 B	85	1.08		0.153 B	92	1.22		0.089 B	49	0.38	11
12		0.125 B	88	0.95		0.140 B	91	1.10		0.090 B	46	0.36	12
13	0.5	0.132 B	89 S	1.02		0.127 B	90	0.99		0.092 B	43	0.34	13
14		0.130 B	89	1.00		0.115 B	90	0.89		0.099 B	40	0.34	14
15		0.138 B	89	1.06		0.103 B	90	0.80		0.110 B	37	0.35	15
16		0.155 B	89	1.19		0.093 B	90	0.72		0.120 B	35	0.36	16
17		0.125 B	89	0.96		0.087 B	90	0.68		0.120 B	32	0.33	17
18		0.088 B	89	0.68		0.083 B	90	0.65		0.105 B	29	0.26	18
19		0.107 B	89	0.82		0.082 B	90	0.64		0.104 B	27	0.24	19
20		0.120 B	89	0.92		0.082 B	90	0.64		0.123 B	25	0.27	20
21		0.125 B	90	0.97		0.098 B	90	0.76		0.202 B	23	0.40	21
22		0.134 B	90	1.04		0.115 B	91	0.90		0.249 B	21	0.45	22
23		0.139 B	91	1.09		0.121 B	92	0.96		0.266 B	19	0.44	23
24		0.152 B	91	1.20	0.5	0.119 B	92 S	0.95		0.284 B	16	0.39	24
25		0.155 B	91	1.22		0.121 B	91	0.95		0.305 B	13	0.34	25
26		0.161 B	91	1.27		0.132 B	88	1.00		0.308 B	10	0.27	26
27		0.152 B	92	1.21		0.134 B	86	1.00		0.321 B	7	0.19	27
28		0.146 B	92	1.16		0.148 B	84	1.07		0.350 B	5	0.15	28
29		0.141 B	91	1.11					1.0	0.818 B	9 S	0.64	29
30		0.157 B	91	1.23					1.0	5.21 B	32 S	18.4	30
31		0.172 B	92	1.37						21.6 B	65	121	31
TOTAL		4.395		27.14		3.713		29.16		32.377		150.13	TOTAL
MEAN		0.142		0.88		0.133		1.04		1.04		4.84	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		21.2 B	51	93.4	14.0	70.0	130 S	786		48.0	41	170	1
2		16.6 B	30	43.0	15.0	71.0	131 S	804	18.0	47.1	40 S	163	2
3		8.46 B	16	11.7	17.0	71.4	128 S	790		45.9	39	155	3
4		5.25 B	11	4.99	16.0	71.4	124 S	765		44.8	38	147	4
5		5.78 B	11	5.49	13.0	70.8	116 S	710	20.0	43.8	36 S	136	5
6	0.5	7.80 B	15 S	10.1	11.0	70.7	104 S	635		43.1	35	130	6
7		7.49 B	20	12.9	10.0	69.8	92 S	558	16.0	42.3	34 S	124	7
8		4.65 B	20	8.04	10.0	68.0	84 S	494		39.7	32	110	8
9		3.85 B	19	6.32		66.4	78	447	18.0	37.9	30 S	98.2	9
10		5.10 B	19	8.37	8.0	66.9	71 S	410		35.7	28	86.4	10
11		6.34 B	37	20.3	9.5	64.9	65 S	364		34.1	25	73.7	11
12	1.0	29.2 B	380 S	959	11.0	62.8	65 S	353	20.0	32.9	24 S	68.2	12
13	0.5	41.3 B	296 S	1 060	13.0	60.6	61 S	319		32.2	24	66.8	13
14	1.0	57.8 B	591 S	2 950	15.0	57.4	53 S	263	19.0	31.4	23 S	62.4	14
15	2.0	116 B	950 S	9 520	11.0	54.5	47 S	221		29.9	23	59.4	15
16	2.0	101	531 S	4 630	10.0	52.7	42 S	191	22.0	27.2	23 S	54.1	16
17	6.0	73.6	256 S	1 630	12.0	51.0	41 S	181		23.7	22	45.0	17
18	4.0	54.9	142 S	674	13.0	50.1	43 S	186		21.0	20	36.3	18
19	3.5	46.8	107 S	433	13.0	49.1	38 S	161		18.7	18	29.1	19
20	5.5	44.2	97 S	370	15.0	48.5	35 S	147		16.4	17	24.1	20
21	6.5	44.2	86 S	328		48.0	35	145	20.0	14.4	15 S	18.7	21
22	8.0	45.5	91 S	358	17.0	47.9	37 S	153		12.8	16	17.7	22
23	15.0	48.1	106 S	441	18.0	48.0	35 S	145		11.7	19	19.2	23
24	12.0	51.3	125 S	554	19.0	49.6	35 S	150	20.0	11.1	25 S	20.0	24
25	11.0	55.0	138 S	656	17.0	50.1	39 S	169		10.5	25	22.7	25
26	10.5	59.0	141 S	719		50.3	40	174		9.86	22	18.7	26
27	10.5	61.9	139 S	743	22.0	50.0	41 S	177		8.96	20	15.5	27
28	14.0	64.8	144 S	806		49.7	41	176	21.0	8.26	18 S	12.8	28
29		67.4	143	833		49.3	41	175		7.58	18	11.8	29
30	13.0	68.9	137 S	816		48.7	42	177		6.68	17	9.81	30
31					16.0	48.6	42 S	176					31
TOTAL		1 223.42		28 704.61		1 788.2		10 599		797.68		2 089.61	TOTAL
MEAN		40.8		957		57.7		342		26.6		67.0	MEAN

MANITOBA

SOURIS RIVER AT WAWANESA - STATION NO. 05MG001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	22.0	5.74	17 S	8.43									
2		4.98	17	7.31	24.0	3.03	5	1.31		2.88	7	1.69	1
3		4.21	16	5.82		3.13	5 S	1.35		2.85	8	1.97	2
4		3.33	16	4.60		3.24	5	1.40		2.91	8	2.01	3
5	25.0	2.69	15 S	3.49	25.0	3.32	7	2.01	19.0	2.81	8 S	1.98	4
						3.36	8 S	2.32		2.71	7	1.64	5
6	23.0	2.19	12 S	2.27		3.52	9	2.74					
7		2.51	12	2.60		3.75	9	2.92	19.0	2.70	7	1.63	6
8	21.0	3.09	11 S	2.94		3.60	8	2.49		3.00	7 S	1.81	7
9		2.91	10	2.51	19.0	3.53	7 S	2.13		3.52	8	2.43	8
10		2.22	8	1.53		3.71	7	2.28		3.89	9	3.02	9
										4.13	9	3.21	10
11		1.90	7	1.15	19.0	3.82	8 S	2.64	19.0	4.22	9 S	3.28	11
12	25.0	2.56	8 S	1.77		3.79	8	2.62		4.30	9	3.34	12
13		2.98	8	2.06		3.80	8	2.63		4.26	8	2.94	13
14		2.77	7	1.68		3.78	9	2.94		4.15	7	2.51	14
15	27.0	2.62	6 S	1.36	23.0	3.88	9 S	3.02	12.0	3.98	6 S	2.06	15
16		3.38	8	2.34		3.76	9	2.92					
17		3.23	10	2.79		3.74	8	2.59		4.16	7	2.52	16
18	24.0	3.10	10 S	2.68		3.68	8	2.54	14.0	4.78	7	2.89	17
19		3.03	9	2.36		3.63	8	2.51		5.29	7 S	3.20	18
20		3.04	8	2.10	24.0	3.63	9 S	2.51	11.5	5.59	7	3.38	19
										5.80	7 S	3.51	20
21		2.95	8	2.04		3.64	8	2.52					
22	21.0	2.79	7 S	1.69		3.46	9	2.69		5.88	8	4.06	21
23		2.83	7	1.71	22.0	3.37	9 S	2.62		5.91	10	5.11	22
24		2.83	6	1.47		3.15	8	2.18		5.90	11	5.61	23
25		2.72	5	1.18		3.02	8	2.09		6.00	11	5.70	24
										5.88	11	5.59	25
26	27.0	2.66	5 S	1.15		2.92	7	1.77	12.0	5.31	10 S	4.59	26
27		2.77	5	1.20	16.0	2.94	7 S	1.78		4.75	11	4.51	27
28		2.88	6	1.49		2.99	7	1.81		5.16	11	4.90	28
29	25.0	3.16	7 S	1.91		2.90	7	1.75	8.0	4.51	11 S	4.29	29
30		3.06	7	1.85		2.90	7	1.75		4.42	11	4.20	30
31		2.98	6	1.54	16.0	2.82	7 S	1.71					31
TOTAL		98.11		79.02		105.81		70.50		131.57		99.54	TOTAL
MEAN		3.04		2.55		3.41		2.27		4.39		3.32	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		4.20	10	3.63		10.6	27	24.7		4.07 B	33	11.6	1
2		4.29	9	3.34		10.7	22	20.3		3.71 B	33	10.6	2
3	8.0	4.27	8 S	2.95	0.1	10.5	18 S	16.7		2.97 B	33	8.47	3
4		4.17	8	2.88		10.2	18	15.9		2.45 B	33	6.99	4
5		4.05	7	2.45		9.91	18	15.4		1.99 B	33	5.67	5
6	7.0	4.05	7 S	2.45		9.86	18	15.3		1.76 B	33	5.02	6
7		4.12	7	2.49		9.47	18	14.7		1.60 B	32	4.56	7
8		4.03	7	2.44		8.08	18	12.6		1.95 B	33	5.56	8
9		3.97	7	2.40		7.86	18	12.2		1.86 B	33	5.30	9
10		4.90	9	3.81		10.3	18	16.0		1.71 B	32	4.73	10
11	7.0	6.67	15 S	8.64		9.92	17	14.6		1.56 B	32	4.31	11
12		4.83	12	5.01		7.99	16	11.0		1.57 B	32	4.34	12
13	9.0	4.30	10 S	3.72		4.98	15	6.45		1.60 B	32	4.42	13
14		3.96	10	3.42		7.95	16	11.0		1.49 B	32	4.12	14
15		3.70	10	3.20		8.05	18	12.5	0.5	1.48 B	32 S	4.09	15
16		3.82	10	3.30		9.87	19	16.2		1.53 B	31	4.10	16
17	13.0	4.99	10 S	4.31		9.91	22	18.8		1.58 B	30	4.10	17
18		6.89	11	6.55		10.5	25	22.7		1.60 B	29	4.01	18
19		7.66	12	7.94		11.7	28	28.3		1.64 B	29	4.11	19
20	5.0	8.30	14 S	10.0		12.0 B	31	32.1		1.60 B	28	3.87	20
21		8.96	15	11.6		14.0 B	34	41.1		1.74 B	28	4.21	21
22		9.21	16	12.7		12.8 B	35	38.7		1.82 B	27	4.25	22
23		8.97	16	12.4		9.45 B	36	29.4		1.84 B	26	4.13	23
24	10.0	8.20	16 S	11.4		8.91 B	36	27.7		1.83 B	25	3.95	24
25		7.47	15	9.68		6.04 B	35	18.3		1.86 B	25	4.02	25
26	9.0	7.71	16 S	10.7		4.77 B	34	14.0		1.85 B	24	3.84	26
27		8.52	19	14.0		4.54 B	34	13.3		1.88 B	24	3.90	27
28		9.80	22	18.6		4.48 B	34	13.2		1.87 B	24	3.88	28
29		10.4	26	23.4		4.02 B	33	11.5		1.94 B	23	3.86	29
30		10.6	29	26.6		4.18 B	33	11.9		2.09 B	23	4.15	30
31	5.0	10.6	30 S	27.5						2.07 B	22	3.91	31
TOTAL		197.65		283.51		263.54		556.15		60.51		154.09	TOTAL
MEAN		6.38		8.50		8.78		18.5		1.95		4.97	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	105	
MAXIMUM DAILY	950	ON APR 15
MINIMUM DAILY	5	ON JAN 01

B - ICE CONDITIONS

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	117	
MAXIMUM DAILY	9 520	ON APR 15
MINIMUM DAILY	0.06	ON JAN 01

S - SAMPLE(S) COLLECTED THIS DAY

TOTAL SUSPENDED SEDIMENT LOAD 42 742.46 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 36 05 N
LONG 99 40 55 W
DRAINAGE AREA 60 300 km^2
REGULATED FLOW

SOURIS RIVER AT WAWANESA - STATION NO. 05MG001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES									METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 15	18:15	116	M	3.0	887	E	22	29	45	61	75	87	96	99	100			BHN
APR 16	13:10	99.6	M	3.0	513	M	38	48	64	77	86	93	97	99	99	100		BHN

M - DAILY MEAN DISCHARGE E - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

MANITOBA

SOURIS RIVER NEAR COULTER - STATION NO. 05NF016

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0 B	0	0		0 B	0	0		0 B	0	0	1
2		0 B	0	0		0 B	0	0		0 B	0	0	2
3		0 B	0	0		0 B	0	0		0 B	0	0	3
4		0 B	0	0		0 B	0	0		0 B	0	0	4
5		0 B	0	0		0 B	0	0		0 B	0	0	5
6		0 B	0	0		0 B	0	0		0 B	0	0	6
7		0 B	0	0		0 B	0	0		0 B	0	0	7
8		0 B	0	0		0 B	0	0		0 B	0	0	8
9		0 B	0	0		0 B	0	0		0 B	0	0	9
10		0 B	0	0		0 B	0	0		0 B	0	0	10
11		0 B	0	0		0 B	0	0		0 B	0	0	11
12		0 B	0	0		0 B	0	0		0 B	0	0	12
13		0 B	0	0		0 B	0	0		0 B	0	0	13
14		0 B	0	0		0 B	0	0		0 B	0	0	14
15		0 B	0	0		0 B	0	0		0 B	0	0	15
16		0 B	0	0		0 B	0	0		0 B	0	0	16
17		0 B	0	0		0 B	0	0		0 B	0	0	17
18		0 B	0	0		0 B	0	0		0 B	0	0	18
19		0 B	0	0		0 B	0	0		0 B	0	0	19
20		0 B	0	0		0 B	0	0		0 B	0	0	20
21		0 B	0	0		0 B	0	0		0 B	0	0	21
22		0 B	0	0		0 B	0	0		0 B	0	0	22
23		0 B	0	0		0 B	0	0		0 B	0	0	23
24		0 B	0	0		0 B	0	0		0 B	0	0	24
25		0 B	0	0		0 B	0	0		0 B	0	0	25
26		0 B	0	0		0 B	0	0		0 B	0	0	26
27		0 B	0	0		0 B	0	0		0 B	0	0	27
28		0 B	0	0		0 B	0	0		0 B	0	0	28
29		0 B	0	0						0 B	0	0	29
30		0 B	0	0						0.001 B	1	0	30
31		0 B	0	0						0.004 B	2	0	31
TOTAL		0		0		0		0		0.005		0	TOTAL
MEAN		0		0		0		0		0.000		0	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.005 B	3	0		62.3	20 S	108		42.1	10	36.4	1
2		0.005 B	3	0		62.0	18 S	96.4		39.2	10 S	33.9	2
3		0.008 B	3	0		62.0	28 S	150		36.7	15 S	47.6	3
4		0.015 B	4	0.01		60.0	16 S	82.9		34.4	21	62.4	4
5		0.020 B	4	0.01		59.7	20	103		32.9	18 S	51.2	5
6		0.020 B	4	0.01		59.0	38 S	194		31.1	20	53.7	6
7		0.020 B	4	0.01		57.2	46 S	227		29.9	23 S	59.4	7
8		0.187 B	12	0.19		53.5	48 S	222		29.3	17	43.0	8
9		0.872 B	27	2.03		49.8	35 S	151		28.6	12 S	29.6	9
10		1.21 B	32	3.35		48.3	32 S	134		27.7	11	26.3	10
11		2.13 B	41	7.55		47.8	21 S	88.7		26.6	11	25.3	11
12		5.12 B	61	27.0	10.0	47.6	9 S	37.0		23.0	11	21.9	12
13	2.5	5.97 B	86 S	44.4		47.2	9 S	36.7		19.1	13	21.5	13
14		9.28 B	76	60.9		46.8	16 S	64.7		16.6	17	20.6	14
15		12.3 B	66	70.1		46.0	18	71.5	20.0	15.3	16 S	21.2	15
16		15.0 B	58	75.2		47.5	20 S	82.1		12.5	16	17.3	16
17		21.3 B	51	93.9		47.7	23	96.8		10.5	15	13.6	17
18		29.3 B	45	114		47.8	25 S	103		9.89	15	12.8	18
19		45.5 B	39	153		47.9	27	112		8.95	14	10.8	19
20	6.0	55.8	36 S	174		48.3	25 S	104		9.46	15	12.3	20
21		59.3	35 S	179		48.6	15 S	63.0		9.15	14	11.1	21
22		60.7	34 S	178		48.7	11	46.3		7.91	13	8.88	22
23		61.5	37 S	197		48.8	10 S	42.2		6.87	12	7.14	23
24		61.5	59 S	314		49.2	11	46.8		6.32	12	6.55	24
25		62.6	42 S	227		49.0	12 S	50.8		5.14	12	5.33	25
26		62.9	24 S	133	20.0	47.8	15 S	61.9		3.62	11	3.44	26
27		64.2	37 S	205		46.8	13 S	52.6		2.96	10	2.56	27
28	12.0	64.7	30 S	168		45.9	10	39.7		4.70	10	3.33	28
29		65.7	35 S	199		45.6	10 S	39.2		2.63	14	2.27	29
30		63.4	41 S	225		46.4	10	38.4		2.72	11	2.59	30
31						43.0	11 S	40.9					31
TOTAL		831.562		2 850.66		1 566.0		2 782.6		533.62		676.57	TOTAL
MEAN		27.7		95.0		50.5		89.8		17.8		22.6	MEAN

SOURIS RIVER NEAR COULTER - STATION NO. 05MP016

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		2.84	12	2.94		4.96	22	9.43		3.03	42 E	11.0	1
2		2.67	14	3.23		5.07	20 S	8.76		3.94	62 S	21.1	2
3		2.66	15	3.45		5.08	15	6.58		4.60	53	21.1	3
4		2.77	15	3.59		4.86	11 S	4.62		4.64	36 S	14.4	4
5		2.93	13	3.29		4.81	11	4.57		4.88	71	29.9	5
6		2.94	12	3.05		5.14	13	5.77		5.20	160 S	71.9	6
7	22.0	2.51	11 S	2.39		5.01	14 S	6.06		5.11	245	108	7
8		2.15	12 S	2.23		4.52	17	6.64		4.99	244 S	105	8
9		2.11	17	3.10		4.35	20 S	7.52		4.59	206 S	81.7	9
10		2.09	20 S	3.61		4.24	21	7.69		4.33	169	63.2	10
11		2.04	18	3.17		4.34	25 S	9.37		5.25	153 S	69.4	11
12		2.01	13 S	2.26	20.0	4.37	14 S	5.29		6.30	136	74.0	12
13		2.03	14	2.46		4.10	8	2.83		6.41	115 S	63.7	13
14		2.41	13 S	2.68		4.12	11 S	3.92		6.55	105	59.4	14
15		3.11	14 S	3.76		4.06	12	4.21		7.07	97	59.3	15
16		3.36	15	4.35		3.80	12 S	3.94		7.01	89	53.9	16
17		3.39	16 S	4.69		3.66	12	3.79		6.89	76	45.2	17
18		3.40	13	3.82		3.53	11 S	3.35		6.83	56	33.0	18
19		3.54	9 S	2.75		3.30	14 S	4.28		6.68	35	20.2	19
20		3.41	9	2.65		3.14	12	3.26		6.77	16 S	9.36	20
21		3.52	11 S	3.35		2.92	8 S	2.02	13.0	5.23	10 S	4.52	21
22		3.74	7 S	2.26		2.87	7	1.74		3.73	13 S	4.19	22
23		3.94	7	2.38		2.81	8 S	1.94		2.79	17 S	4.10	23
24		4.09	10 S	3.53		2.65	13	2.98		2.63	19	4.32	24
25		4.28	13	4.81		2.61	22 S	4.58		2.91	20 S	5.03	25
26		4.47	15 S	5.79		2.36	35 S	7.14		2.67	21	4.84	26
27		4.60	14	5.56		2.31	38	7.58		2.40	23 S	4.77	27
28		4.84	10 S	4.18		2.45	40 S	8.47		3.56	36	11.1	28
29		4.78	5 S	2.06		2.20	40	7.60		3.62	33 S	10.3	29
30		5.01	11	4.76		2.27	39	7.65		3.13	16 S	4.33	30
31		4.98	21 S	9.04		2.33	38	7.65					31
TOTAL		102.42		110.99		114.04		171.23		143.70		1 072.26	TOTAL
MEAN		3.30		3.58		3.68		5.52		4.79		35.7	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m³/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		3.03	13	3.40		9.94	23 S	19.8		1.57 B	13	1.76	1
2		3.02	14 S	3.65		9.84	19	15.5		2.47 B	23	4.91	2
3		2.91	17	4.27		9.34	20	16.1		2.60 B	24	5.39	3
4		2.76	23 S	5.48		10.3 B	27	24.0		1.83 B	23	3.69	4
5		2.73	26	6.13		10.6 B	36	33.0		1.59 B	23	3.16	5
6		2.63	28 S	6.36		10.3 B	36 S	32.0		1.52 B	25	3.28	6
7		2.86	31 S	7.66		9.12 B	30	23.6		1.49 B	29	3.73	7
8		2.78	31	7.45		8.55 B	24 S	17.7		1.46 B	35	4.62	8
9		2.27	30 S	5.88		7.98 B	20	13.8		1.61 B	41	5.70	9
10		2.49	35	7.53		8.25 B	18 S	12.8		1.69 B	51	7.09	10
11		3.13	47 S	12.7		8.13 B	19 S	13.3		1.53 B	60	7.93	11
12		5.88	68	28.9		10.2 B	34	30.0		1.63 B	67	9.88	12
13		8.27	36 S	25.7		11.5 B	32	31.8		1.62 B	74	10.4	13
14		8.84	29 S	22.1		10.2 B	16	14.1	0.5	1.66 B	80 S	11.5	14
15		8.99	27	21.0	1.0	9.94 B	8 S	6.87		1.70 B	85	12.5	15
16		10.0	26 S	22.5		10.0 B	7	6.05		1.71 B	89	13.1	16
17		10.6	29	26.6		10.3 B	7	6.23		1.76 B	92	14.0	17
18		9.88	28 S	23.9		10.2 B	7	6.17		1.74 B	92	13.8	18
19		9.20	24	19.1		9.50 B	7	5.75		1.70 B	92	13.5	19
20		6.36	19 S	10.4		8.73 B	8	6.03		1.65 B	91	13.0	20
21		7.08	24 S	14.7		11.9 B	16	16.5		1.67 B	92	13.3	21
22		8.51	28	20.6		13.8 B	21	25.0		1.66 B	92	13.2	22
23		9.51	26 S	21.4		8.34 B	14	10.1		1.68 B	92	13.4	23
24		9.73	24	20.2		6.05 B	10	3.50		1.65 B	92	13.1	24
25		9.94	23 S	19.8		2.17 B	10	1.87		1.66 B	94	13.5	25
26		10.1	20	17.5		1.58 B	10	1.37		1.64 B	95	13.5	26
27	10.9	9.99	17 S	14.7		1.33 B	10	1.15		1.63 B	95	13.4	27
28		10.3	22 S	19.6		1.34 B	10	1.16		1.58 B	96	13.1	28
29		10.7	34	31.4		1.40 B	10	1.21		1.59 B	96	13.2	29
30		10.6	38 S	34.1		1.51 B	10	1.30		1.64 B	99	14.0	30
31		10.1	30	26.2						1.70 B	100	14.7	31
TOTAL		214.99		596.81		239.94		397.76		52.55		318.65	TOTAL
MEAN		6.94		16.3		8.00		13.3		1.70		10.0	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	47	
MAXIMUM DAILY	245	ON SEP 07
MINIMUM DAILY	0	ON JAN 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	26.3	
MAXIMUM DAILY	110	ON APR 26
MINIMUM DAILY	0	ON JAN 01

TOTAL SUSPENDED SEDIMENT LOAD 8 879.13 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 27 N
LONG 100 57 12 W
DRAINAGE AREA 61 360 km²
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0 B	0	0	1
2										0 B	0	0	2
3										0 B	0	0	3
4										0 B	0	0	4
5										0 B	0	0	5
6										0 B	0	0	6
7										0 B	0	0	7
8										0 B	0	0	8
9										0 B	0	0	9
10										0 B	0	0	10
11										0 B	0	0	11
12										0 B	0	0	12
13										0 B	0	0	13
14										0 B	0	0	14
15										0 B	0	0	15
16										0 B	0	0	16
17										0 B	0	0	17
18										0 B	0	0	18
19										0 B	0	0	19
20										0 B	0	0	20
21										0 B	0	0	21
22										0 B	0	0	22
23										0 B	0	0	23
24										0 B	0	0	24
25										0 B	0	0	25
26										0 B	0	0	26
27										0 B	0	0	27
28										0 B	0	0	28
29										0.492 B	1	0.04	29
30										1.61 B	2	0.24	30
31										1.39 B	2	0.24	31
TOTAL										1.30 B	3	0.34	TOTAL
MEAN										4.592		0.86	MEAN
										0.148		0.03	

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1.13 B	3	0.29		3.54	113	38.6		1.96 E	16	2.68	1
2		1.09 B	3	0.28		3.15	101	27.5	13.0	1.23 A	12 S	1.28	2
3		1.02 B	4	0.35		2.97	92	23.6		0.993	10	0.86	3
4		1.00 B	4	0.35	18.5	2.87	80 S	20.8		0.869	8	0.60	4
5		0.994 B	4	0.34		2.76	71	16.9		0.804	7	0.49	5
6		0.986 B	5	0.43						0.835	13	0.98	6
7		0.962 B	5	0.42		2.47	57	12.2		1.47	34 S	4.32	7
8		0.962 B	5	0.42	8.0	2.22	42 S	8.06	14.0	2.76	51	12.2	8
9		0.954 B	5	0.41		2.08	34	6.11		2.50	50	10.8	9
10		0.954 B	6	0.46		1.91	28	4.62		1.93	43	7.17	10
11		1.09 B	6	0.57	7.0	1.69	22 S	3.21					
12		1.30 B	6	0.67		2.16	83	15.5		1.49	35	4.51	11
13		1.34 D	7	0.81		3.41	120	35.4		1.13	29	2.83	12
14	3.0	13.2 B	90 S	103	14.0	3.06	42 S	11.1		0.937	22	1.78	13
15	5.0	38.2 B	463 S	1 530		2.89	25	6.24		0.820	16	1.13	14
					13.0	2.61	22 S	5.34	16.0	0.714	12 S	0.74	15
16	4.0	34.0 B	476 S	1 400	10.0	4.83	164 S	68.9		0.637	11	0.61	16
17	3.0	25.1	526 S	1 150	9.0	9.79	599 S	504		0.581	10	0.50	17
18	4.0	27.6	492 S	1 170	9.0	13.7	826 S	970		0.556	9	0.43	18
19	4.0	21.1	423 S	771	8.0	10.2	384 S	338		0.546	10	0.66	19
20	3.0	16.7	355 S	512	12.0	7.04	107 S	110		0.605	22	1.15	20
21	4.0	15.3	301 S	398	10.0	5.22	128 S	57.7		0.675	25 S	1.40	21
22	5.0	18.3	502 S	794	14.0	4.21	76 S	27.6	19.0	0.672	24	1.39	22
23	7.0	25.8	903 S	2 190		4.03 E	51	17.8		0.653	24	1.35	23
24	10.0	28.3	861 S	1 480	14.0	3.53 E	34 S	10.4		0.637	23	1.27	24
25		13.3	563	647		3.16 A	21	6.28		0.630	23	1.25	25
26	9.0	7.52	278 S	181		2.72 A	21	4.96		0.637	23	1.27	26
27	12.0	5.86	200 S	101		2.51 E	21	4.55		0.587	22	1.12	27
28	8.5	5.00	165 S	71.3		2.44 E	21	4.43	20.0	0.518	20 S	0.89	28
29		4.58	141	55.8		2.32 E	20	4.01		0.465	19	0.73	29
30	8.0	3.81	122 S	40.2		2.20 E	19	3.61		0.388	19	0.64	30
31					10.0	2.07 E	18 S	3.32					31
TOTAL		309.652		12 600.13		119.91		2 378.12		29.101		66.99	TOTAL
MEAN		10.3		420		3.87		76.7		0.973		2.23	MEAN

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.339	17	0.50		0.396	25	0.86		0.109	11	0.10	1
2		0.306	15	0.40		0.384	25	0.83		0.118	12	0.12	2
3		0.309	13	0.35		0.369	24	0.72	15.0	0.140	12 S	0.15	3
4		0.317	11	0.30		0.301	23	0.60		0.139	11	0.13	4
5	21.0	0.308	10 S	0.27		0.246	22	0.47		0.113	11	0.11	5
6		0.303	9	0.24		0.200	22	0.38		0.099	10	0.09	6
7		0.275	9	0.21		0.182	21	0.33		0.109	11	0.10	7
8		0.241	8	0.17		0.155 E	20	0.27	17.5	0.129 A	11 S	0.12	8
9		0.204	7	0.12		0.131 E	19	0.22		0.140 E	11	0.13	9
10		0.172	8	0.12		0.122 E	18	0.19		0.143 E	11	0.14	10
11		0.186	12	0.19		0.117 E	16	0.16		0.143 E	10	0.12	11
12	19.0	0.203	17 S	0.30	16.0	0.112 A	14 S	0.14		0.140 E	8	0.10	12
13		0.185	15	0.24	19.0	0.130	12 S	0.13		0.137 E	6	0.07	13
14	23.0	0.167	10 S	0.14		0.192	30	0.50		0.128 E	5	0.06	14
15		0.148	10	0.13	18.0	0.724	84 S	5.25	12.0	0.122 E	5 S	0.05	15
16	20.0	0.404	37 S	1.29		0.807	78	5.44		0.120 E	6	0.06	16
17	20.0	1.32	54 S	6.16		0.672	61	3.54		0.120 E	6	0.06	17
18		1.96	59	9.99		0.550	44	2.09		0.125 E	6	0.06	18
19		1.54	54	7.19		0.442	29	1.11		0.140 E	7	0.08	19
20		1.01	47	4.10	19.0	0.348	17 S	0.51		0.146 E	6	0.08	20
21		0.665	39	2.24		0.278	13	0.31		0.159 E	6	0.08	21
22		0.475	31	1.27		0.226	13	0.25	15.0	0.162 E	6 S	0.08	22
23		0.407	23	0.81		0.189	11	0.18		0.166 E	6	0.09	23
24	18.0	0.366	17 S	0.54		0.184	10	0.16		0.173 E	6	0.09	24
25		0.321	15	0.42	14.0	0.239	14 S	0.29		0.256 E	6	0.13	25
26		0.276	13	0.31		0.198	15	0.26		0.396 E	6	0.21	26
27		0.244	13	0.27		0.155	14	0.19		0.554 E	6	0.29	27
28		0.207	14	0.25		0.124	13	0.14		0.593 A	14	0.72	28
29		0.255	19	0.42		0.114	12	0.12	8.0	0.877 A	24 S	1.82	29
30		0.369	22	0.70		0.106	11	0.10		1.23 E	20	2.13	30
31	20.0	0.391	24 S	0.81		0.104	11	0.10					31
TOTAL		13.873		80.45		8.477		25.84		7.126		7.57	TOTAL
MEAN		0.447		1.30		0.273		0.83		0.237		0.25	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.00 E	17	1.47									1
2		0.770 E	13	0.87									2
3		0.571 E	8	0.39									3
4	9.0	0.465 E	5 S	0.20									4
5	6.0	0.391 A	6 S	0.20									5
6		0.381	7	0.23									6
7		0.381	8	0.26									7
8		0.396	10	0.34									8
9		0.396	16	0.55									9
10		0.588	138	7.01									10
11	7.0	3.23	482 S	135									11
12	9.0	3.42	370 S	109									12
13	10.0	2.25	133 S	25.9									13
14		1.57	55	7.46									14
15	8.0	1.05	26 S	2.36									15
16		0.842	24	1.75									16
17		0.813	21	1.48									17
18	8.0	0.830 A	18 S	1.29									18
19		0.836 E	15	1.08									19
20		0.842 E	14	1.02									20
21		0.830 E	12	0.86									21
22		0.767 E	9	0.60									22
23	6.0	0.674 E	7 S	0.41									23
24		0.588 E	7	0.36									24
25	9.0	0.470 E	8 S	0.32									25
26		0.357 A	7	0.22									26
27		0.347	8	0.24									27
28		0.593	58	2.97									28
29	9.0	2.89	218 S	59.6									29
30		2.49	186	40.0									30
31		1.67	125	18.0									31
TOTAL		32.706		416.24									TOTAL
MEAN		1.05		13.4									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	342	
MAXIMUM DAILY	983	ON APR 23
MINIMUM DAILY	0	ON MAR 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	63.6	
MAXIMUM DAILY	2 190	ON APR 23
MINIMUM DAILY	0	ON MAR 01

TOTAL SUSPENDED SEDIMENT LOAD 15 536.20 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 56 40 N
LONG 99 31 15 W
DRAINAGE AREA 974 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)		WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)		PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
							0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 15	07:00	38.2	M	5.0	332	E	22	28	47	56	60	66	72	85	90	92		BNW
APR 16	14:35	28.9		6.0	622	E	19	30	47	62	71	80	88	98	98	99		BNW
APR 23	14:00	23.7		5.0	986	E	31	40	60	75	83	87	92	95	97	98		BNW
MAY 18	11:00	13.7	M	9.0	879	E	31	40	60	74	81	86	90	95	98	99		BNW

M - DAILY MEAN DISCHARGE E - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL B - SAMPLES COLLECTED IN SEVERAL VERTICALS

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0 B	0	0	1
2										0 B	0	0	2
3										0 B	0	0	3
4										0 B	0	0	4
5										0 B	0	0	5
6										0 B	0	0	6
7										0 B	0	0	7
8										0 B	0	0	8
9										0 B	0	0	9
10										0 B	0	0	10
11										0 B	0	0	11
12										0 B	0	0	12
13										0 B	0	0	13
14										0 B	0	0	14
15										0 B	0	0	15
16										0 B	0	0	16
17										0 B	0	0	17
18										0 B	0	0	18
19										0 B	0	0	19
20										0 B	0	0	20
21										0 B	0	0	21
22										0 B	0	0	22
23										0 B	0	0	23
24										0 B	0	0	24
25										0 B	0	0	25
26										0 B	0	0	26
27										0 B	0	0	27
28										0.160 B	5	0.07	28
29										0.298 B	13	0.33	29
30										0.502 B	19	0.82	30
31										0.460 B	19	0.76	31
TOTAL										1.420		1.98	TOTAL
MEAN										0.046		0.06	MEAN

DAY	APR TEMP (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	0.5	0.392 B	15 S	0.51		2.30	11	2.19		0.872 E	4	0.30	1
2		0.262 B	10	0.23	13.0	2.05	11 S	1.95	15.0	0.872 E	4 S	0.30	2
3		0.162 B	5	0.06	11.0	2.02	9 S	1.57		0.844 E	4	0.29	3
4		0 B	0	0		1.93	9	1.50		0.823 E	4	0.28	4
5		0 B	0	0	12.0	1.80	9 S	1.40		0.781 E	4	0.27	5
6		0 B	0	0		1.74 E	9	1.35		0.760 E	4	0.26	6
7		0 B	0	0		1.70 E	9	1.32		0.746 E	4	0.26	7
8		0 B	0	0	8.0	1.66 E	10 S	1.43		0.739 E	4	0.26	8
9		0 B	0	0		1.63 E	8	1.13	15.0	0.732 E	4 S	0.25	9
10		0 B	0	0	11.0	1.61 E	6 S	0.83		0.686	4	0.24	10
11		0.298 B	9	0.10		1.66 E	6	0.86		0.633	4	0.22	11
12		1.50 B	11	1.43		1.68 E	5	0.73		0.562	3	0.15	12
13	0.3	6.46 B	13 S	5.01		1.66 E	4	0.57		0.506	3	0.13	13
14	3.0	8.99 B	21 S	16.3		1.60 E	4	0.55	15.0	0.471	3 S	0.12	14
15	2.0	11.3 B	25 S	24.4	11.0	1.50 E	3 S	0.39		0.412	3	0.11	15
16	2.0	12.3 B	29 S	25.5		1.54 E	3	0.40		0.367	3	0.10	16
17	1.0	13.4 B	69 S	79.9		1.58 E	3	0.41		0.354	3	0.09	17
18	0.1	13.0 B	72 S	80.9		1.60 E	3	0.41		0.330	3	0.09	18
19	0.1	12.2 B	43 S	45.3		1.50 E	4	0.52		0.342	3	0.09	19
20	0.5	11.3 B	43 S	42.0		1.40 E	4	0.48	15.0	0.378	4 S	0.13	20
21	1.0	8.99 B	47 S	36.5	11.0	1.32 E	4 S	0.46		0.327	4	0.11	21
22	2.0	7.01 B	41 S	24.8		1.25 E	4	0.43		0.281	4	0.10	22
23	3.0	6.37	33 S	18.2		1.18 E	4	0.41		0.303	4	0.10	23
24	3.0	4.90	32 S	13.5		1.13 E	4	0.39		0.268	4	0.09	24
25	5.0	3.94	16 S	6.13		1.09 E	4	0.38		0.233	4	0.08	25
26		3.33	15	4.32	11.0	1.04 E	4 S	0.36	15.0	0.258	5 S	0.11	26
27	8.0	2.85	11 S	2.71		1.00 E	4	0.35		0.224	5	0.10	27
28	10.0	2.66	11 S	2.53		0.970 E	4	0.34		0.183	5	0.08	28
29	9.0	2.47	13 S	2.77		0.935 E	4	0.32		0.146	5	0.06	29
30		2.48	12	2.57		0.907 E	4	0.31		0.114	5	0.05	30
31						0.893 E	4	0.31					31
TOTAL		134.544		435.67		45.875		26.05		14.533		4.82	TOTAL
MEAN		4.48		14.5		1.48		0.78		0.484		0.16	MEAN

MANITOBA

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.090	5	0.04		0.425	4	0.15		0.131	3	0.03	1
2		0.088	5	0.04		0.398	4	0.14	13.0	0.109	3 S	0.03	2
3		0.097	5 S	0.04	24.0	0.425	5 S	0.18		0.159	3	0.04	3
4		0.076	5	0.03		0.597	5	0.26		0.102	3	0.03	4
5		0.064	5	0.03		0.740	5	0.32		0.069	3	0.02	5
6		0.050	5	0.02		0.748	5	0.32	13.0	0.059	2 S	0.01	6
7		0.056	4	0.02		0.830	5	0.36		0.065	2	0.01	7
8		0.039	4	0.01		0.801	5	0.35		0.063	2	0.01	8
9		0.030	4	0.01		0.938	5	0.41		0.158	3	0.04	9
10		0.025	4 S	0.01		0.918	5	0.40		0.176	3	0.05	10
11		0.025	4	0.01		1.04	5	0.45		0.099	3	0.03	11
12		0.046	5	0.02		1.38	5	0.60		0.059	4 S	0.02	12
13		0.102	8	0.10		1.31	5	0.57		0.074	4	0.03	13
14		0.100	7	0.06		1.32	5	0.57		0.074	3	0.02	14
15		0.069	6	0.04	21.0	1.19	5 S	0.51		0.082	3	0.02	15
16		0.348	5	0.15		1.03	4	0.36		0.087	3	0.02	16
17	20.0	1.50	8 S	1.04	23.0	0.999	2 S	0.17		0.078	2	0.01	17
18	20.0	1.26	8 S	0.87	24.0	0.793	2 S	0.14		0.066	2	0.01	18
19		0.991	6	0.51		0.657	2	0.11		0.064	2	0.01	19
20	24.0	0.641 A	5 S	0.28		0.570	2	0.10		0.044	2	0.01	20
21	20.0	0.451	5 S	0.19	20.0	0.636	3 S	0.16		0.123	2	0	21
22	23.0	0.357	5 S	0.15	20.0	0.621	3 S	0.16	10.0	0.076	2 S	0	22
23	23.0	0.320	5 S	0.14		0.540	3	0.14		0.069	2	0.01	23
24		0.221	7	0.13	17.0	0.465	3 S	0.12		0.064	2	0.01	24
25	24.0	0.159	8 S	0.11		0.841	3	0.11		0.097	3	0.03	25
26		0.120	7	0.07	17.0	0.366	2 S	0.06		0.127	3	0.03	26
27		0.092	5	0.04		0.257	2	0.04		0.174	3	0.05	27
28		0.094	4	0.03		0.239	2	0.04		0.326	3	0.08	28
29	25.0	0.416	2 S	0.07		0.217	2	0.04		0.402	3	0.10	29
30		0.432	2	0.07		0.180	2	0.03		0.419	3	0.11	30
31		0.452	3	0.12		0.136	3	0.04					31
TOTAL		8.849		4.45		21.207		7.41		3.523		0.87	TOTAL
MEAN		0.285		0.14		0.684		0.24		0.117		0.03	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.430	3	0.11									1
2		0.475	4	0.16									2
3		0.400	4	0.14									3
4	8.0	0.369	4 S	0.13									4
5		0.345	4	0.12									5
6		0.330	4	0.11									6
7		0.320	4	0.11									7
8	4.0	0.443	4 S	0.15									8
9		0.373	4	0.13									9
10		0.391	4	0.14									10
11	6.0	0.422	3 S	0.11									11
12		0.407	3	0.11									12
13		0.420	3	0.11									13
14		0.358	3	0.09									14
15		0.804	2	0.07									15
16	7.0	0.651	2 S	0.11									16
17		0.833	2	0.14									17
18		0.768	2	0.13									18
19		0.740	2	0.13									19
20		0.773	2	0.13									20
21		0.685	1	0.06									21
22		0.629	2	0.11									22
23		0.528	1	0.05									23
24	9.0	0.534	1 S	0.05									24
25		0.451	1	0.04									25
26		0.356	2	0.06									26
27		0.361	2	0.06									27
28		0.550	2	0.10									28
29		0.697	3	0.18									29
30	5.0	0.758 B	3 S	0.20									30
31	6.0	0.727 B	3 S	0.19									31
TOTAL		15.936		3.53									TOTAL
MEAN		0.514		0.11									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	23	
MAXIMUM DAILY	72	ON APR 18
MINIMUM DAILY	0	ON MAR 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	1.97	
MAXIMUM DAILY	80.9	ON APR 18
MINIMUM DAILY	0	ON MAR 01

TOTAL SUSPENDED SEDIMENT LOAD 482.78 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 16 45 N
LONG 100 00 39 W
DRAINAGE AREA 2 870 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0 B	0	0	1
2										0 B	0	0	2
3										0 B	0	0	3
4										0 B	0	0	4
5										0 B	0	0	5
6										0 B	0	0	6
7										0 B	0	0	7
8										0 B	0	0	8
9										0 B	0	0	9
10										0 B	0	0	10
11										0 B	0	0	11
12										0 B	0	0	12
13										0 B	0	0	13
14										0 B	0	0	14
15										0 B	0	0	15
16										0 B	0	0	16
17										0 B	0	0	17
18										0 B	0	0	18
19										0 B	0	0	19
20										0 B	0	0	20
21										0 B	0	0	21
22										0 B	0	0	22
23										0 B	0	0	23
24										0 B	0	0	24
25										0 B	0	0	25
26										0 B	0	0	26
27										0 B	0	0	27
28										0.391 B	5	0.17	28
29										1.34 B	15	1.74	29
30										1.68 B	30	4.35	30
31									0.5	0.980 B	25 S	2.12	31
TOTAL										4.391		8.38	TOTAL
MEAN										0.142		0.27	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.391 B	5	0.17	6.5	3.31	184 S	52.6		1.22	16	1.69	1
2		0 B	0	0		2.67	150	34.6	17.0	1.17	14 S	1.42	2
3		0 B	0	0		2.27	120	23.5		1.04	11	0.99	3
4		0 B	0	0	13.0	2.05	104 S	18.4		0.877	10	0.76	4
5		0 B	0	0	12.0	1.75	100 S	15.1		0.714	9	0.56	5
6		0 B	0	0		1.49	94	12.1		0.632	8	0.44	6
7		0 B	0	0		1.28	81	8.96	18.0	0.512	8 S	0.35	7
8		0 B	0	0	8.0	1.05	59 S	5.35	16.0	0.497	7 S	0.30	8
9		0 B	0	0		0.866	45	3.37		0.459	7	0.28	9
10		0 B	0	0		0.833	39	2.81		0.415	7	0.25	10
11		1.34 B	20	2.32		0.964	39	3.25		0.348	7	0.21	11
12	2.0	3.96 B	98 S	33.5	10.0	1.40	36 S	4.35		0.317	7	0.19	12
13	0.3	7.00 B	110 S	66.5		1.43	32	3.95		0.320 E	6	0.17	13
14	0.5	13.3 B	290 S	333		1.20	26	2.70	19.0	0.174 A	6 S	0.09	14
15	0.8	20.1 B	533 S	926		1.07	21	1.94		0.152 E	6	0.08	15
16	0.3	13.7 B	377 S	446		1.02	19	1.67		0.120 E	5	0.05	16
17	0.5	12.9 B	356 S	397	9.5	1.29	19 S	2.12		0.106 E	5	0.05	17
18	0.8	20.3	914 S	1 600		2.52	46	10.0		0.093 E	5	0.04	18
19	1.5	15.7	998 S	1 350		3.93	87	29.5		0.079 E	5	0.03	19
20	1.3	13.7	1 150 S	1 360		3.62	76	23.8		0.065 E	4	0.02	20
21	2.5	12.2	948 S	999		2.91	62	15.6	22.0	0.050 A	4 S	0.02	21
22		12.6	922	1 000	18.0	2.38	53 S	10.9		0.040 E	4	0.01	22
23		14.3	1 080	1 330		1.97	44	7.49		0.028 E	4	0.01	23
24	4.0	14.4	1 010 S	1 260		1.62	35	4.90		0.040 E	4	0.01	24
25	4.5	12.4	848 S	909		1.38	26	3.10		0.093 E	5	0.04	25
26	4.5	9.73	698 S	587		1.22	20	2.11		0.152 E	5	0.07	26
27	5.5	7.66	562 S	372		1.27	17	1.87		0.168 E	5	0.07	27
28	7.0	6.30	461 S	251		1.11	15	1.44	22.0	0.136 A	5 S	0.06	28
29	8.0	5.16	321 S	143	14.5	0.922	13 S	1.04		0.079 E	4	0.03	29
30		4.26	224	82.4		0.916	13	1.03		0.053 E	3	0.01	30
31						1.05	14	1.27					31
TOTAL		221.401		13 447.89		52.761		310.82		10.145		8.30	TOTAL
MEAN		7.38		448		1.70		10.0		0.338		0.28	MEAN

MANITOBA

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.015 E	1	0	19.0	0.183 A	16 S	0.25		0 A	0	0	1
2		0 E	0	0		0.183 A	13	0.21		0 A	0	0	2
3		0 E	0	0		0.082 A	10	0.07		0 A	0	0	3
4		0 A	0 S	0		0.655 A	18	1.02		0 A	0	0	4
5		0 E	0	0		0.432 A	20	0.75		0 A	0	0	5
6		0 E	0	0		0.352 A	18	0.55		0 A	0	0	6
7		0 E	0	0		0.310 A	16	0.43		0 A	0	0	7
8		0 E	0	0	17.0	0.187 A	15 S	0.24		0 A	0	0	8
9		0 E	0	0		0.112 A	13	0.13		0 A	0	0	9
10		0 E	0	0		0.093 A	10	0.08		0 A	0	0	10
11		0 E	0	0		0.060 A	6	0.03		0 A	0	0	11
12		0 A	0 S	0		0.011 A	2	0		0 A	0	0	12
13		0 E	0	0		0 A	0	0		0 A	0	0	13
14		0 E	0	0		0 A	1	0		0 A	0	0	14
15		0.093 E	2	0.02	19.0	0.352 A	20 S	0.61		0 A	0	0	15
16		0.862	11	0.82		0.588 A	21	1.07		0 A	0	0	16
17	19.0	1.55	26 S	3.48		0.586 A	17	0.80		0 A	0	0	17
18		0.934	18	1.45		0.517	13	0.58		0 A	0	0	18
19		0.773	14	0.94		1.31	56	6.34		0 A	0	0	19
20		0.773 E	11	0.73		1.56	56	7.55		0 A	0	0	20
21		0.055 A	8 S	0.04		0.820	30	2.13		0 A	0	0	21
22		0 A	0	0	18.0	0.455 A	19 S	0.75		0 A	0	0	22
23		0 A	0	0		0.303 A	14	0.37		0.003 A	0	0	23
24		0 A	0	0		0.139 A	10	0.12		0 A	0	0	24
25		0 A	0 S	0	15.0	0.087 A	6 S	0.05		0 A	0	0	25
26		0 A	0	0		0.053 A	3	0.01		0 A	0	0	26
27		0.161 A	13	0.18		0.009 A	1	0		0 A	0	0	27
28		0.003 A	12	0		0 A	0	0		0.441	4	0.15	28
29		0.405 A	30	1.05		0 A	0	0		0.818	5	0.35	29
30		0.133 A	27	0.31		0 A	0	0		0.641	5	0.28	30
31		0.020 A	21	0.04		0 A	0	0					31
TOTAL		5.777		9.06		9.399		24.14		1.903		0.78	TOTAL
MEAN		0.186		0.29		0.303		0.78		0.063		0.03	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.568	5	0.25									1
2		0.667	5	0.29									2
3	7.0	0.700	5 S	0.30									3
4		0.680	5	0.29									4
5		0.626	5	0.27									5
6		0.653	5	0.28									6
7		0.686	4	0.24									7
8		0.683	4	0.24									8
9		0.665	4	0.23									9
10	12.0	0.794	4 S	0.27									10
11		0.983	4	0.33									11
12		0.915	4	0.32									12
13		0.790	4	0.27									13
14		1.14	14	1.38									14
15		1.59	8	1.10									15
16		1.43	5	0.62									16
17	11.0	1.25	5 S	0.54									17
18		1.19	5	0.51									18
19		1.13	4	0.39									19
20		1.15	4	0.40									20
21		1.06	4	0.37									21
22		0.953	4	0.33									22
23		0.836	4	0.29									23
24	10.0	0.838	4 S	0.29									24
25		0.813	4	0.28									25
26		0.778	4	0.27									26
27		0.666	4	0.23									27
28		0.887	32	2.45									28
29	10.0	3.93	164 S	55.7									29
30		4.87	140	58.9									30
31		3.68	104	33.1									31
TOTAL		37.561		160.73									TOTAL
MEAN		1.21		5.18									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	471	
MAXIMUM DAILY	1 150	ON APR 20
MINIMUM DAILY	0	ON MAR 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	57.0	
MAXIMUM DAILY	1 600	ON APR 18
MINIMUM DAILY	0	ON MAR 01

TOTAL SUSPENDED SEDIMENT LOAD 13 970.10 t

TYPE OF GAUGE - MANUAL
LOCATION - LAT 51 11 00 N
LONG 100 00 45 W
DRAINAGE AREA 673 km^2
REGULATED FLOW SINCE 1979

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 14	09:25	13.3 H	0.1	368 K	42	55	71	79	85	90	96	99	100			BNW
APR 16	15:05	13.7 H	0.5	515 K	23	35	51	68	80	87	92	96	98	99		BNW
APR 19	17:10	14.0	3.0	794 R	23	33	48	67	85	94	97	100				BNW
APR 21	15:20	12.2 H	3.5	821 K	24	30	48	63	78	91	97	99	100			BNW
APR 25	11:00	12.4 H	4.0	863 K	36	44	57	68	78	90	96	99	100			BNW
APR 27	09:45	7.66H	5.5	563 K	47	51	66	77	86	93	99	100				BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

MANITOBA

WILSON RIVER NEAR DAUPHIN - STATION NO. 05LJ011

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0 B	0	0	1
2										0 B	0	0	2
3										0 B	0	0	3
4										0 B	0	0	4
5										0 B	0	0	5
6										0 B	0	0	6
7										0 B	0	0	7
8										0 B	0	0	8
9										0 B	0	0	9
10										0 B	0	0	10
11										0 B	0	0	11
12										0 B	0	0	12
13										0 B	0	0	13
14										0 B	0	0	14
15										0 B	0	0	15
16										0 B	0	0	16
17										0 B	0	0	17
18										0 B	0	0	18
19										0 B	0	0	19
20										0 B	0	0	20
21										0 B	0	0	21
22										0 B	0	0	22
23										0 B	0	0	23
24										0 B	0	0	24
25										0 B	0	0	25
26										0 B	0	0	26
27										0 B	0	0	27
28										0 B	0	0	28
29										0.186 B	10	0.16	29
30										0.618 B	20	1.07	30
31										0.540 B	25	1.17	31
TOTAL										0.422 B	30	1.09	TOTAL
MEAN										1.766		3.49	MEAN
										0.057		0.11	

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.293 B	29 S	0.73	12.0	1.48	32 S	4.09		0.311	2	0.05	1
2		0.137 B	20	0.24		1.24	25	2.68	18.0	0.319	2 S	0.06	2
3		0 B	0	0		0.951	20	1.64		0.462	2	0.08	3
4		0 B	0	0		0.864	16	1.19		0.483	2	0.08	4
5		0 B	0	0	12.0	0.800	14 S	0.97		0.390	2	0.07	5
6		0 B	0	0		0.777	13	0.87		0.350	2	0.06	6
7		0 B	0	0		0.680	12	0.71		0.286	2	0.05	7
8		0 B	0	0		0.579	12	0.60		0.225	3	0.06	8
9		0 B	0	0		0.521	11	0.50		0.209	3	0.05	9
10		0 B	0	0		0.500	10	0.43	13.0	0.163	3 S	0.04	10
11		0.243 B	20	0.42		0.591	8	0.41	18.0	0.119	4 S	0.04	11
12	0.5	1.61 B	33 S	4.59	9.0	0.482	7 S	0.27		0.114	4	0.04	12
13	0.1	3.98 B	55 S	18.9		0.714	7	0.43		0.086	4	0.03	13
14	0.5	8.67 B	189 S	142		0.636	6	0.33		0.066	4	0.02	14
15	0.8	15.1 B	268 S	350		0.572	6	0.30		0.055	4	0.02	15
16	0.5	17.0 B	308 S	452		0.514	5	0.22		0.051	4	0.02	16
17	0.5	13.3 B	369 S	424		0.519	5	0.22		0.041	3	0.01	17
18	1.5	14.9 B	485 S	624	12.0	0.561	4 S	0.19		0.038	3	0.01	18
19	2.3	17.1 A	594 S	878		0.901	4	0.31		0.034	3	0.01	19
20	3.3	13.8 A	402 S	479		1.39	4	0.48	16.0	0.032	3 S	0.01	20
21	4.3	13.1 A	318 S	360		1.41	3	0.37		0.029	3	0.01	21
22		12.2 A	288	304		1.28	3	0.33		0.029	3	0.01	22
23		11.7	222	224		1.20	3	0.31		0.028	3	0.01	23
24	9.0	10.8	188 S	175		0.939	3	0.24		0.024	3	0.01	24
25	8.0	9.15	215 S	170		0.739	2	0.13		0.034	3	0.01	25
26	7.0	6.75	180 S	105	23.0	0.605	2 S	0.10		0.050	3	0.01	26
27	8.0	4.84	139 S	58.1		0.506	2	0.09		0.045	4	0.02	27
28	9.0	3.41	92 S	27.1		0.439	2	0.08	21.0	0.031	4 S	0.01	28
29		2.48	64	13.7		0.376	2	0.06		0.025	4	0.01	29
30		1.87	44	7.11		0.362	2	0.06		0.023	4	0.01	30
31						0.347	2	0.06					31
TOTAL		182.433		4 817.89		23.435		18.67		4.152		0.92	TOTAL
MEAN		6.08		161		0.756		0.60		0.138		0.03	MEAN

WILSON RIVER NEAR DAUPHIN - STATION NO. 05LJ011

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.026	4	0.01	19.0	0.134	6 S	0.07		0.199	1	0.02	1
2		0.037	4	0.01		0.146	6	0.08		0.204	1	0.02	2
3		0.060	3	0.02		0.150	7	0.09		0.212	2	0.04	3
4	24.0	0.060	3 S	0.02		0.184	7	0.11		0.181	2	0.03	4
5		0.056	3	0.01		0.187	7	0.11	14.0	0.149	3 S	0.04	5
6		0.053	3	0.01		0.209	7	0.13		0.130	3	0.03	6
7		0.048	3	0.01		0.220	7	0.13		0.112	3	0.03	7
8		0.040	3	0.01	19.0	0.194	7 S	0.12		0.087	3	0.02	8
9		0.035	3	0.01		0.204	7	0.12		0.066	2	0.01	9
10		0.032	3	0.01		0.210	7	0.13		0.051	2	0.01	10
11		0.034	2	0.01		0.205	6	0.11		0.045	2	0.01	11
12	22.0	0.031	2 S	0.01		0.208	5	0.09	15.0	0.036	2 S	0.01	12
13		0.029	2	0.01		0.209	4	0.07		0.022	2	0	13
14		0.024	2	0		0.385	6	0.20		0.020	2	0	14
15		0.027	3	0.01		0.402	5	0.17		0.018	2	0	15
16		0.031	6	0.02	20.0	0.332	2 S	0.06		0.017	3	0	16
17		0.042	5	0.02		0.308	2	0.05		0.017	3	0	17
18	12.0	0.048	4 S	0.02		0.458	6	0.24		0.014	3	0	18
19		0.059	6	0.03		0.512	7	0.31	11.5	0.011	3 S	0	19
20		0.061	7	0.04		0.825	9	0.64		0.009	3	0	20
21	27.0	0.043	6 S	0.02		0.932	8	0.64		0.005	3	0	21
22		0.051	6	0.03	20.0	0.772	7 S	0.47		0.003	3	0	22
23		0.068	6	0.04		0.585	5	0.24		0.004	2	0	23
24		0.078	5	0.03		0.410	4	0.14		0.001	1	0	24
25	21.0	0.077	5 S	0.03	15.0	0.315	3 S	0.08		0	0	0	25
26		0.063	5	0.03		0.300	2	0.05	11.0	B	0	0	26
27		0.062	5	0.03		0.223	1	0.02		0	0	0	27
28		0.075	5	0.03		0.189	1	0.02		0.010	0	0	28
29		0.087	5	0.04	13.0	0.192	1 S	0.02		0.042	0	0	29
30		0.094	6	0.05		0.179	1	0.02		0.060	1	0.01	30
31		0.112	6	0.06		0.195	1	0.02					31
TOTAL		1.643		0.68		9.934		4.75		1.725		0.28	TOTAL
MEAN		0.053		0.02		0.320		0.15		0.057		0.01	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.067	1	0.01									1
2		0.077	1	0.01									2
3	8.0	0.074	1 S	0.01									3
4		0.072	1	0.01									4
5		0.062	2	0.01									5
6		0.051	2	0.01									6
7		0.044	2	0.01									7
8		0.047	2	0.01									8
9		0.047	3	0.01									9
10	12.0	0.054	3 S	0.01									10
11		0.068	3	0.02									11
12		0.065	3	0.02									12
13		0.061	3	0.02									13
14		0.059	3	0.02									14
15		0.052	2	0.01									15
16		0.046	2	0.01									16
17	11.5	0.047	2 S	0.01									17
18		0.037	2	0.01									18
19		0.030	2	0.01									19
20		0.026	2	0									20
21		0.215	3	0.06									21
22		0.321	3	0.08									22
23		0.313	3	0.08									23
24	10.0	0.315	3 S	0.08									24
25		0.303	3	0.08									25
26		0.291	3	0.08									26
27		0.279	3	0.07									27
28		0.348	3	0.09									28
29		0.690	10	0.60									29
30		2.26	28	5.47									30
31		3.48	34	10.2									31
TOTAL		9.901		17.12									TOTAL
MEAN		0.319		0.55									MEAN

SUMMARY FOR THE MONTHS MAR TO OCT

SUSPENDED SEDIMENT CONCENTRATION(mg/L)			SUSPENDED SEDIMENT LOAD(t/d)		
MEAN	240		MEAN	19.9	
MAXIMUM DAILY	594	ON APR 19	MAXIMUM DAILY	878	ON APR 19
MINIMUM DAILY	0	ON MAR 01	MINIMUM DAILY	0	ON MAR 01

TOTAL SUSPENDED SEDIMENT LOAD 4 863.80 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 12 30 N
LONG 100 10 45 W
DRAINAGE AREA 925 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

MANITOBA

WILSON RIVER NEAR DAUPHIN - STATION NO. 05LJ011

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 15	11:50	15.1 M	1.0	289 K	39	52	71	80	90	96	99	100				BNW
APR 16	16:12	17.0 M	0.5	334 K	36	49	67	85	91	96	98	99	100			BNW
APR 19	19:15	17.1 M	3.0	577 K	35	48	65	78	87	93	98	99	100			BNW
APR 20	09:15	13.8 M	3.0	422 R	37	50	69	83	91	95	98	100				BNW
APR 21	15:35	13.1 M	5.0	342 K	39	46	68	83	92	95	98	100				BNW

M - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		21.9 B	10	18.9		9.20 B	4	3.18		10.2 B	5	4.61	1
2		21.0 B	10	18.1		9.30 B	5	4.02	0.1	9.84 B	4 S	3.40	2
3	0.1	20.0 B	11 S	19.0	0.1	10.3 B	4 S	3.56		9.50 B	4	3.28	3
4		26.0 B	11	24.7		32.0 B	137	379		9.20 B	5	3.97	4
5	0.1	33.0 B	24 S	68.4		43.0 B	44	163		10.5 B	22	20.0	5
6	0.1	36.0 B	13 S	40.4	0.1	40.0 B	24 S	82.9	0.1	13.0 B	25 S	28.1	6
7		33.8 B	12	35.0		37.0 B	14	44.8		17.0 B	15	22.0	7
8	0.1	31.0 B	12 S	32.1		34.0 B	12	35.3		22.6 B	68	133	8
9		28.1 B	12	29.1		30.0 B	13	33.7		22.0 B	23	43.7	9
10		26.8 B	11	25.5		28.0 B	10	24.2		20.6 B	21	37.4	10
11		25.5 B	12	26.4		26.0 B	10	22.5		19.5 B	18	30.3	11
12		23.9 B	13	26.8		24.0 B	9	18.7		20.5 B	43	76.2	12
13		22.1 B	13	24.8	0.1	22.0 B	9 S	17.1	0.1	25.0 B	63 S	136	13
14		20.8 B	17	30.6		21.0 B	9	16.3		35.0 B	74	224	14
15		19.5 B	16	27.0		19.5 B	8	13.5		55.0 B	23	109	15
16		17.8 B	14	21.5		18.2 B	8	12.6		52.0 B	20	89.9	16
17		16.8 B	12	17.4		17.2 B	9	13.4		47.0 B	20	81.2	17
18		15.8 B	11	15.0		16.2 B	10	14.0		44.5 B	22	84.6	18
19		15.0 B	12	15.6		15.5 B	10	13.4		44.3 B	47	180	19
20		14.2 B	12	14.7	0.1	14.9 B	6 S	7.72	0.1	44.5 B	64 S	246	20
21		13.3 B	14	16.1		14.2 B	6	7.36		41.0 B	26	92.1	21
22		12.9 B	14	15.6		13.5 B	4	4.67	0.1	38.0 B	23 S	75.5	22
23	0.1	12.3 B	16 S	17.0	0.1	13.0 B	4 S	4.49		41.1	22	78.1	23
24		12.0 B	22	22.8		12.5 B	7	7.56	3.0	27.7	19 S	45.5	24
25		13.0 B	20	22.5		12.0 B	8	8.29		28.2	33	80.4	25
26		12.8 B	13	14.4		11.5 B	6	5.96	6.0	49.9	97 S	418	26
27		11.9 B	14	14.4	0.1	11.1 B	4 S	3.84	2.0	83.9	109 S	790	27
28		11.2 B	12	11.6		10.9 B	5	4.71	0.1	65.5	44 S	249	28
29		10.6 B	10	9.16					1.0	49.8	25 S	108	29
30	0.1	10.2 B	8 S	7.05					2.0	43.4	37 S	139	30
31		9.60 B	6	4.98					4.0	55.7	92 S	443	31
TOTAL		598.80		686.59		566.00		969.76		1 055.94		4 075.06	TOTAL
MEAN		19.3		22.1		20.2		34.6		34.1		131	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	3.0	125	200 S	2 160	5.0	72.4	11 S	68.8		9.95	3	2.58	1
2	2.0	142	60 S	736	5.0	65.8	9 S	51.2	17.0	10.4	4 S	3.59	2
3	2.0	89.6	33 S	255	7.0	56.0	12 S	58.1	17.0	23.5	15 S	30.5	3
4	3.0	82.9	64 S	458	10.0	49.7	10 S	42.9	20.0	14.7	3 S	3.81	4
5	2.0	89.0	34 S	261	6.0	47.3	11 S	45.0		11.3	3	2.93	5
6	0.1	68.1	20 S	118	7.0	41.3	10 S	35.7		9.84	4	3.40	6
7	0.1	58.4	18 S	90.8		36.8	10	31.8		9.12	4	3.15	7
8	1.0	53.3	14 S	64.5	11.0	32.8	9 S	25.5		8.69	3	2.25	8
9		45.9	12	47.6		29.4	8	20.3		8.12	3	2.10	9
10	1.0	41.0	11 S	39.0	11.0	26.8	8 S	18.5		7.75	3	2.01	10
11		39.8	18	61.9		25.2	7	15.2		7.26	4	2.51	11
12	3.0	48.8	20 S	84.3	11.0	24.0	7 S	14.5		7.06	3	1.83	12
13		47.8	34	140		22.5	7	13.6		6.78	4	2.34	13
14	4.0	76.4	88 S	581		22.6	7	13.7	15.0	6.84	4 S	2.36	14
15	5.0	78.8	29 S	197	6.0	24.8	7 S	15.0		8.52	6	4.42	15
16	5.0	71.8	21 S	130		22.5	7	13.6	15.0	8.96	8 S	6.19	16
17	6.0	90.7	49 S	384	9.0	20.7	4 S	7.15	13.0	12.6	21 S	22.9	17
18	7.0	149	82 S	1 060		19.0	6	9.85		9.15	15	11.9	18
19	5.0	161	44 S	612	19.0	16.9	4 S	5.84	16.0	7.63	12 S	7.91	19
20	8.0	130	33 S	371	15.0	19.8	6 S	10.3		7.05	10	6.09	20
21	7.0	110	22 S	209		21.3	5	9.20	15.0	12.6	16 S	17.4	21
22	5.0	131	33 S	374	10.0	16.9	5 S	7.30		8.98	8	6.21	22
23	6.0	105	19 S	172		14.6	4	5.05	15.0	9.40	21 S	17.1	23
24	6.0	82.4	17 S	121	11.0	13.5	5 S	5.83	14.0	23.2	52 S	104	24
25	7.0	70.6	17 S	104		17.0	8	11.8	14.0	14.2	11 S	13.5	25
26	8.0	65.5	18 S	102	11.0	19.7	7 S	11.9	15.0	9.60	7 S	5.81	26
27	10.0	69.7	18 S	108		14.4	4	4.98		8.11	5	3.50	27
28	8.0	93.4	37 S	299		12.4	3	3.21	16.0	6.96	4 S	2.41	28
29	5.0	106	26 S	238	13.0	11.8	2 S	2.04		6.61	5	2.86	29
30	5.0	87.8	16 S	121		10.9	3	2.83	16.0	22.0	53 S	101	30
31					17.0	10.5	3 S	2.72					31
TOTAL		2 610.7		9 699.1		839.3		583.40		316.88		398.56	TOTAL
MEAN		87.0		323		27.1		18.8		10.6		13.3	MEAN

NEW BRUNSWICK

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	15.0	17.1	19 S	28.1		9.55	10	8.25	14.0	8.50	7 S	5.14	1
2		10.4	11	9.88	18.0	8.56	7 S	5.18	15.0	23.9	65 S	134	2
3	15.0	8.64	9 S	6.72		7.62	6	3.95	14.0	41.4	37 S	132	3
4		7.95	8	5.50	16.0	6.59	5 S	2.85	15.0	24.2	18 S	37.6	4
5	15.0	7.32	8 S	5.06		6.70	5	2.89		16.8	16	23.2	5
6		6.82	7	4.12	16.0	9.51	8 S	6.57	14.0	12.8	13 S	14.4	6
7	17.0	6.52	6 S	3.38	15.0	8.42	5 S	3.64		10.7	8	7.40	7
8		6.20	5	2.68		7.19	6	3.73	12.0	9.46	9 S	7.36	8
9		5.87	6	3.04	17.0	6.53	6 S	3.39		9.03	9	7.02	9
10	20.0	5.50	6 S	2.85		8.08	9	6.28		8.32	8	5.75	10
11		5.18	8	3.58	18.0	9.16	9 S	7.12	15.0	7.85	8 S	5.43	11
12	18.0	5.02	8 S	3.47		7.31	8	5.05		7.43	7	4.49	12
13		4.81	9	3.74		6.84	7	4.14	17.0	6.91	6 S	3.58	13
14	20.5	4.77	8 S	3.30	17.0	9.46	11 S	8.99		6.50	6	3.37	14
15		4.68	8	3.23		7.92	10	6.84	17.0	6.33	5 S	2.73	15
16		4.53	10	3.91	17.0	6.67	10 S	5.76		7.16	9	5.57	16
17	22.0	4.44	8 S	3.07		6.10	9	4.74		7.09	9	5.51	17
18		4.42	8	3.06	18.0	7.94	11 S	7.55	15.0	6.58	7 S	3.98	18
19	21.0	4.35	9 S	3.38		6.79	9	5.28		6.25	7	3.78	19
20		4.38	10	3.78		6.03	8	4.17	12.0	5.66	4 S	1.96	20
21	19.0	13.1	33 S	37.4	22.0	7.67	8 S	5.30		5.86	8	4.05	21
22	19.0	33.5	42 S	122		6.52	5	2.82	13.0	7.02	8 S	4.85	22
23	19.0	22.7	20 S	39.2	14.0	5.58	6 S	2.89	12.0	13.3	19 S	21.8	23
24	17.0	12.7	8 S	8.78	17.0	12.6	31 S	33.7	12.0	10.8	17 S	15.9	24
25		8.86	6	4.59	15.0	33.8	55 S	161	12.0	8.14	17 S	12.0	25
26	18.0	7.92	5 S	3.42	16.0	35.1	71 S	215		6.81	10	5.88	26
27		7.37	6	3.82		31.8	38	104	13.0	6.30	4 S	2.18	27
28	20.0	7.05	7 S	4.26	16.0	16.2	21 S	29.4		7.90	9	6.14	28
29	19.0	26.3	53 S	120		11.8	12	12.2	13.0	7.53	8 S	5.20	29
30	16.0	24.3	24 S	50.4	11.0	9.57	8 S	6.61		6.45	8	4.46	30
31	18.0	12.5	14 S	15.1		8.72	8	6.03					31
TOTAL		305.20		516.82		332.33		685.32		312.98		496.73	TOTAL
MEAN		9.85		16.6		10.7		22.1		10.4		16.6	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		6.18	6	3.20	5.0	5.64	5 S	2.44		25.4	19	41.7	1
2		25.1	50	108		5.63	5	2.43	3.0	42.6	38 S	140	2
3		17.7	22	33.6	10.0	7.86	7 S	4.75	1.0	36.9	10 S	31.9	3
4		11.4	11	10.8	12.0	9.56	8 S	6.61	6.0	46.8	58 S	235	4
5	9.0	9.08	8 S	6.28		22.7	78	153		45.7	24	94.8	5
6		8.04	7	4.86	11.0	72.9	113 S	712					
7	10.0	6.99	6 S	3.62	3.0	40.9	30 S	106	5.0	35.5	9 S	27.6	6
8		6.66	5	2.88	5.0	26.7	10 S	23.1		32.5	8	22.5	7
9	9.0	6.74	4 S	2.33	2.0	21.8	8 S	15.1	3.0	27.7	8 S	19.1	8
10		6.59	6	3.42	5.0	18.4	6 S	9.54		24.8	10	21.4	9
11	2.0	6.07	5 S	2.62		16.4	6	8.50	1.0	21.4	17 S	31.4	10
12		5.93	5	2.56	7.0	16.4	5 S	7.08		18.5 B	16	25.6	11
13	2.0	5.84	4 S	2.02		23.7	56	115		17.0 B	14	20.6	12
14		6.13	5	2.65	6.0	84.8	91 S	667	0.1	15.2 B	14 S	18.4	13
15	9.0	18.4	36 S	57.2	3.0	50.8	42 S	184		13.7 B	12	14.2	14
16	7.0	14.5	12 S	15.0		71.2	99	609		12.5 B	12	13.0	15
17		10.2	8	7.05	3.0	58.5	16 S	75.3		15.0 B	53	68.7	16
18	3.0	8.65	6 S	4.48	2.0	43.3	9 S	33.7	2.0	26.0 B	160 S	359	17
19		7.88	5	3.40	2.0	35.4	8 S	24.5	1.0	20.5 B	24 S	42.5	18
20	8.0	7.59	6 S	3.93	1.5	30.2	7 S	18.3	0.1	18.0 B	16 S	24.9	19
21		7.02	6	3.64	3.0	27.2	6 S	14.1	1.0	15.7 B	12 S	16.3	20
22		7.00	9	5.44	3.0	27.8	10 S	24.0	2.0	14.8 B	8 S	10.2	21
23	4.0	6.86	10 S	5.93	8.0	30.7	12 S	31.8	1.0	13.5 B	7 S	8.16	22
24		6.40	5	2.76	9.0	28.4	9 S	22.1	0.1	12.8 B	8 S	8.85	23
25	3.0	6.29	6 S	3.26	4.0	32.7	16 S	45.2	0.1	11.8 B	6 S	6.12	24
26		5.99	7	3.62		25.7	11	24.4	2.0	11.2 B	7 S	6.77	25
27	3.0	5.87	10 S	5.07	2.0	22.0 B	14 S	26.6	4.0	55.6	108 S	500	26
28		5.76	8	3.98		19.0 B	14	23.0	1.0	54.6	23 S	109	27
29		5.58	6	2.89	1.0	22.0 B	17 S	32.3	2.0	36.5	13 S	41.0	28
30	8.0	5.61	6 S	2.91	2.0	30.3	28 S	73.3	6.0	49.4	34 S	145	29
31		5.63	5	2.43					2.0	38.3	13 S	43.0	30
									2.0	32.0 E	7 S	19.4	31
TOTAL		263.68		321.83		924.59		3 094.15		841.9		2 166.10	TOTAL
MEAN		8.51		10.4		30.8		103		27.2		69.9	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	31	
MAXIMUM DAILY	200	ON APR 01
MINIMUM DAILY	2	ON MAY 29

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	64.9	
MAXIMUM DAILY	2 160	ON APR 01
MINIMUM DAILY	1.83	ON JUN 12

TOTAL SUSPENDED SEDIMENT LOAD 23 691.42 t

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 42 07 N
LONG 65 36 05 W
DRAINAGE AREA 1 100 km^2
NATURAL FLOW

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.062				0.024				0.017			1
2		0.065				0.024				0.017			2
3		0.060				0.027				0.017			3
4		0.056				0.036				0.018			4
5		0.103				0.088				0.018			5
6		0.132				0.046				0.020			6
7		0.086				0.037				0.019			7
8		0.066				0.032				0.043			8
9		0.056				0.030				0.026			9
10		0.054				0.028				0.023			10
11		0.049				0.027				0.024			11
12		0.044				0.025				0.110			12
13		0.041				0.022				0.061			13
14		0.044				0.021				0.120			14
15		0.048				0.020				0.058			15
16		0.046				0.019				0.040			16
17		0.043				0.021				0.035			17
18		0.036				0.020				0.034			18
19		0.035				0.019				0.035			19
20		0.035				0.019				0.035			20
21		0.034				0.020				0.031			21
22		0.035				0.019				0.031			22
23		0.035				0.021				0.029			23
24		0.032				0.019				0.028			24
25		0.032				0.019				0.055			25
26		0.027				0.021				0.087			26
27		0.027				0.017				0.116 A			27
28		0.026				0.018				0.084 E			28
29		0.026								0.060 E			29
30		0.024								0.050 E			30
31		0.024								0.066 E			31
TOTAL		1.483				0.739				1.407			TOTAL
MEAN		0.048				0.026				0.045			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.302 A	3	0.08		0.325	2	0.06		0.025	2	0	1
2		0.717	4	0.25		0.292	2	0.05		0.172	24 S	0.36	2
3		0.544	3	0.14		0.271	2	0.05	10.0	0.222	8 S	0.15	3
4		0.294	3	0.08		0.258	2	0.04		0.068	3	0.02	4
5		0.215	3	0.06		0.225	2	0.04		0.046	3	0.01	5
6		0.167	2	0.03		0.206	2	0.04		0.038	3	0.01	6
7		0.137	2	0.02		0.182	2	0.03		0.035	3	0.01	7
8		0.132	2	0.02		0.163	2	0.03		0.033	2	0.01	8
9		0.130	2	0.02		0.148	2	0.03		0.028	2	0	9
10		0.122	2	0.02		0.130	2	0.02	12.5	0.024	2 S	0	10
11		0.118	2	0.02		0.112	2	0.02		0.020	2	0	11
12		0.108	2	0.02	5.0	0.092	2 S	0.02		0.018	2	0	12
13		0.103	2	0.02		0.087	2	0.02		0.017	1	0	13
14		0.195	5	0.08		0.077	2	0.01		0.026	2	0	14
15		0.152	2	0.03		0.068	2	0.01		0.031	2	0.01	15
16		0.276	5	0.12		0.063	2	0.01		0.041	2	0.01	16
17		0.750	3	0.19		0.058	2	0.01	10.5	0.043	2 S	0.01	17
18		2.31	5	1.00		0.052	1	0		0.026	2	0	18
19	0.5	1.07	5 S	0.46		0.050	1	0		0.023	2	0	19
20		0.706	3	0.18		0.065	2	0.01		0.033	2	0.01	20
21	0.5	0.893	4 S	0.31		0.076	2	0.01		0.029	2	0.01	21
22		0.816	2	0.14		0.054	2	0.01		0.032	2	0.01	22
23		0.530	2	0.09		0.043	1	0		0.060	8 S	0.04	23
24		0.536	3	0.14		0.045	2	0.01		0.130	3	0.03	24
25		0.757	5	0.33		0.062	2	0.01		0.044	3	0.01	25
26		0.912	3	0.24		0.048	2	0.01		0.033	3	0.01	26
27		1.31	5	0.57		0.038	2	0.01	16.0	0.026	2 S	0	27
28		0.757	2	0.13		0.032	2	0.01		0.019	2	0	28
29		0.479	2	0.08		0.030	2	0.01		0.042	15	0.05	29
30		0.371	2	0.06		0.028	2	0		0.271	16	0.37	30
31						0.026	2	0					31
TOTAL		15.909		4.93		3.406		0.58		1.655		1.14	TOTAL
MEAN		0.530		0.16		0.110		0.02		0.055		0.04	MEAN

NEW BRUNSWICK

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.067	3	0.02		0.016	3	0		0.041	2	0.01	1
2		0.041	3	0.01		0.014	2	0		0.296	28	0.72	2
3		0.035	3	0.01		0.011	2	0		0.292	4	0.10	3
4		0.031	2	0.01		0.010	2	0		0.194	2	0.03	4
5		0.025	2	0		0.057	4 S	0.02		0.115	2	0.02	5
6		0.020	2	0		0.048	3	0.01		0.087	1	0.01	6
7		0.020	2	0		0.027	3	0.01		0.162	2	0.03	7
8		0.017	2	0		0.019	2	0		0.092	1	0.01	8
9		0.015	2	0		0.016	2	0		0.076	1	0.01	9
10		0.013	2	0		0.051	3	0.01	11.0	0.069	1 S	0.01	10
11		0.013	2	0		0.029	2	0.01		0.056	1	0	11
12		0.011	2	0		0.018	3	0		0.050	1	0	12
13		0.010	2	0		0.074	5	0.03		0.043	1	0	13
14		0.009	2	0		0.075	3	0.02		0.041	1	0	14
15		0.007	2	0		0.044	2	0.01		0.120	9 S	0.09	15
16		0.007	2	0		0.029	2	0.01		0.120	3	0.03	16
17		0.006	1	0		0.020	2	0		0.086	3	0.02	17
18		0.006	1	0		0.017	2	0		0.062	3	0.02	18
19		0.004	1	0	13.0	0.013	1 S	0		0.059	3	0.02	19
20		0.005	1	0		0.009	1	0		0.062	2	0.01	20
21		0.006	1	0		0.007	1	0		0.059	2	0.01	21
22		0.251	38	0.82		0.005	1	0		0.052	2	0.01	22
23		0.110	4	0.04		0.005	1	0		0.057	2	0.01	23
24		0.034	3	0.01		0.034	3	0.01		0.074	2	0.01	24
25		0.022	2	0		0.039	6	0.02		0.052	2	0.01	25
26		0.018	2	0		0.338	9 S	0.26		0.044	2	0.01	26
27		0.016	2	0		0.096	2	0.02		0.045	2	0.01	27
28		0.016	2	0		0.114	4	0.04		0.081	2	0.01	28
29		0.082	6	0.04		0.060	3	0.02		0.053	2	0.01	29
30		0.040	3	0.01		0.052	2	0.01		0.042	2	0.01	30
31		0.021	3	0.01		0.050	2	0.01					31
TOTAL		0.978		0.98		1.397		0.52		2.682		1.24	TOTAL
MEAN		0.031		0.03		0.045		0.02		0.089		0.04	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	11.0	0.076	7 S	0.05		0.028				0.090			1
2		0.160	4	0.06		0.028				0.116			2
3		0.067	3	0.02		0.035				0.109			3
4		0.058	3	0.02		0.046				0.372			4
5		0.051	3	0.01		0.127				0.261			5
6		0.047	2	0.01		0.176				0.200			6
7		0.044	2	0.01		0.070				0.191			7
8		0.041	2	0.01		0.059				0.136			8
9		0.042	2	0.01		0.055				0.112			9
10		0.040	2	0.01		0.048				0.134			10
11		0.038	2	0.01		0.045				0.095			11
12		0.036	1	0		0.058				0.074			12
13		0.035	1	0		0.417				0.052			13
14		0.086	4	0.03		0.479				0.053			14
15		0.094	3	0.02		0.216				0.085			15
16		0.065	2	0.01		0.168				0.081			16
17		0.049	2	0.01		0.135				0.267			17
18		0.043	2	0.01		0.115				0.085			18
19		0.039	2	0.01		0.101				0.065			19
20		0.039	2	0.01		0.088				0.063			20
21		0.038	2	0.01		0.103				0.064			21
22		0.037	2	0.01		0.346				0.058			22
23		0.033	2	0.01		0.356				0.049			23
24		0.032	2	0.01		0.285				0.045			24
25	3.0	0.030	2 S	0.01		0.225				0.656			25
26		0.028	2	0		0.155				0.180			26
27		0.028	2	0		0.135				0.113			27
28		0.028	2	0		0.125				0.068			28
29		0.029	1	0		0.111				0.148			29
30		0.027	1	0		0.107				0.075			30
31		0.027	1	0						0.066			31
TOTAL		1.487		0.37		4.438				3.563			TOTAL
MEAN		0.048		0.01		0.148				0.115			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 46 16 36 N
LONG 67 01 17 W
DRAINAGE AREA 3.89 km^2
NATURAL FLOW

A - MANUAL GAUGE

E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

PETITCODIAC RIVER NEAR PETITCODIAC - STATION NO. 01BU002

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		4.90 B	2	0.85		2.32 B	4	0.80		1.90 B	5	0.82	1
2		4.65 B	6	1.61		2.33 B	3	0.60		1.85 B	5	0.80	2
3		4.58 B	6	2.37		2.60 B	3	0.67		1.80 B	4	0.62	3
4	0.1	4.80 B	12 S	4.98		6.00 B	101	52.4		1.90 B	4	0.66	4
5		5.50 B	26	12.4		20.0 B	36	62.2		2.30 B	21	4.17	5
6		9.40 B	12	9.75	0.1	18.2 B	6 S	9.43	1.0	2.80 B	18 S	4.35	6
7		8.40 B	9	6.53		16.5 B	4	5.70		4.00 B	6	2.07	7
8		7.80 B	7	4.72		15.0 B	4	5.18		5.20 B	8	3.59	8
9		7.10 B	6	3.68		13.0 B	4	4.49		7.20 B	9	5.60	9
10	0.1	6.30 B	5 S	2.72		11.0 B	4	3.80		6.50 B	9	5.05	10
11		6.00 B	5	2.59		9.92 B	4	3.43		6.00 B	11	5.70	11
12		5.50 B	4	1.90		8.40 B	4	2.90		7.30 B	87	54.9	12
13		5.00 B	4	1.73	0.1	7.60 B	4 S	2.63		8.50 B	18	13.2	13
14		4.73 B	4	1.63		6.70 B	5	2.89		14.0 B	11	13.3	14
15		4.42 B	4	1.53		6.10 B	5	2.64		17.5 B	9	13.6	15
16		4.18 B	4	1.44		5.50 B	4	1.90		15.8 B	8	10.9	16
17	0.1	3.95 B	4 S	1.37		5.00 B	4	1.73		14.7 B	9	11.4	17
18		3.75 B	5	1.62		4.50 B	3	1.17		13.8 B	8	9.56	18
19		3.60 B	5	1.56		4.10 B	3	1.06		13.0 B	6	6.74	19
20		3.40 B	4	1.18	0.1	3.60 B	2 S	0.62		12.7 B	6	6.58	20
21		3.30 B	4	1.14		3.32 B	3	0.86		11.9 B	6	6.17	21
22		3.20 B	5	1.38		3.00 B	3	0.78		11.0 B	5	4.75	22
23		3.10 B	5	1.34		2.76 B	4	0.95		10.2 B	5	4.41	23
24	0.1	3.00 B	6 S	1.56		2.68 B	5	1.16		9.60 B	4	3.32	24
25		2.90 B	5	1.25		2.42 B	5	1.05		9.10 B	7	5.50	25
26		2.88 B	4	1.00		2.30 B	6	1.19		16.0 B	31	42.9	26
27		2.75 B	3	0.71	0.1	2.20 B	6 S	1.14	4.0	30.0 B	25 S	64.8	27
28		2.64 B	3	0.68		2.10 B	6	1.09		22.0 B	8	15.2	28
29		2.55 B	4	0.88						18.0 B	5	7.78	29
30	0.1	2.41 B	4 S	0.83						16.2 B	15	21.0	30
31		2.36 B	4	0.82						21.0 B	19	34.5	31
TOTAL		139.05		77.75		189.15		174.46		333.75		383.92	TOTAL
MEAN		4.49		2.51		6.76		6.23		10.8		12.4	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		51.0 B	64	282		20.5	6	10.6		1.86	2	0.32	1
2		36.0 B	8	24.9	4.0	16.5	5 S	7.13		2.13	6	1.10	2
3		31.0 B	23	61.6		12.3	5	5.31		5.89	18	9.16	3
4		26.0 B	15	33.7		10.1	5	4.36		4.09	4	1.41	4
5		23.2 B	11	22.0		9.10	5	3.93	14.0	2.56	3 S	0.66	5
6		22.3	10	19.3		7.72	4	2.67	15.0	2.05	4 S	0.71	6
7		15.5	8	10.7		6.64	3	1.72		1.77	4	0.61	7
8		12.9	7	7.80		5.91	3	1.53		1.62	4	0.56	8
9		10.8	7	6.53		5.21	3	1.35		1.67	5	0.64	9
10		9.39	7	5.68		4.74	3	1.23		1.30	5	0.56	10
11	3.0	9.17	10 S	7.92		4.65	3	1.15		1.28	5	0.55	11
12		12.6	15	16.3		4.42	3	1.15		1.20	4	0.41	12
13		14.9	22	28.3		4.85	3	1.15	17.0	1.23	3 S	0.32	13
14		29.2	47	119		5.02	7	3.04		1.39	3	0.36	14
15		30.1	24	62.4	5.0	7.05	6 S	3.65		1.86	4	0.64	15
16		32.9	28	79.6		6.36	2	1.10	15.0	2.57	8 S	1.78	16
17		45.1	33	129		5.24	3	1.36		3.47	7	2.10	17
18	4.0	80.0	105 S	726		4.54	3	1.18		2.66	5	1.15	18
19		79.0	33	225		3.90	3	1.01	15.0	2.04	5 S	0.88	19
20		47.4	19	77.8		4.76	8	3.29		2.00	9	1.56	20
21		36.5	31	97.8		7.60	27	17.7	15.0	5.26	39 S	17.7	21
22		48.1	69	287		5.65	5	2.44		3.11	6	1.61	22
23		36.6	14	44.3	9.0	4.15	4 S	1.43	15.0	3.98	14 S	4.81	23
24		23.6	8	16.3		3.43	4	1.19	16.0	10.8	28 S	26.1	24
25	4.0	19.3	9 S	15.0		4.15	6	2.15	17.0	8.19	13 S	9.20	25
26		18.9	9	14.7		4.56	3	1.18	17.0	4.84	7 S	2.93	26
27		21.9	11	20.8		3.45	3	0.89	17.0	3.23	6 S	1.67	27
28		33.3	69	199		2.85	4	0.98		2.36	6	1.22	28
29		38.9	42	141		2.51	3	0.65		2.13	6	1.10	29
30		27.7	10	23.9	17.0	2.21	3 S	0.57	14.0	7.62	26 S	17.1	30
31						2.04	3	0.53					31
TOTAL		923.26		2 805.33		191.51		87.62		95.96		108.92	TOTAL
MEAN		30.8		93.5		6.18		2.83		3.20		3.63	MEAN

NEW BRUNSWICK

PETITCODIAC RIVER NEAR PETITCODIAC - STATION NO. 01BU002

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	16.5	6.87	10 S	5.59		4.17	8	2.88		3.00	5	1.30	1
2		3.87	7	2.34		2.84	7	1.72	14.0	13.3	36 S	41.4	2
3	16.0	2.77	6 S	1.44		2.14	7	1.29	14.0	20.0	15 S	25.9	3
4		2.19	7	1.32		1.66	7	1.00	14.0	14.8	8 S	10.2	4
5		1.82	5	0.79		1.82	8	1.26		7.27	6	3.77	5
6		1.57	4	0.54		3.38	6	1.75		5.07	6	2.63	6
7		1.35	4	0.47		3.31	4	1.14		3.76	6	1.95	7
8		1.24	4	0.43	19.0	2.50	3 S	0.65		2.92	5	1.26	8
9		1.09	4	0.38		2.17	2	0.37		2.58	4	0.89	9
10		0.997	5	0.43		2.42	3	0.63		2.36	4	0.82	10
11	17.0	0.835	5 S	0.36		2.98	4	1.03	18.0	2.17	4 S	0.75	11
12		0.806	6	0.42		2.40	4	0.83		1.82	5	0.79	12
13		0.860	7	0.52		2.72	9	2.12		1.64	4	0.57	13
14		0.791	6	0.41		4.52	8	3.12		1.59	4	0.55	14
15		0.702	6	0.36		3.85	4	1.33		1.54	3	0.40	15
16		0.622	6	0.32	16.0	2.68	5 S	1.16		2.20	4	0.76	16
17		0.651	6	0.34		2.06	5	0.89		2.33	4	0.81	17
18	20.0	0.671	7 S	0.41		2.77	5	1.20	13.0	2.05	3 S	0.53	18
19		0.649	7	0.39		2.46	5	1.06		1.74	3	0.45	19
20		0.673	7	0.41		1.97	5	0.85		1.50	4	0.52	20
21		2.77	15	3.59	18.0	2.90	5 S	1.25		1.68	6	0.87	21
22	19.0	13.5	47 S	54.8		2.31	5	1.00		2.28	7	1.38	22
23	19.0	12.5	12 S	13.0		1.60	4	0.55		5.51	10	4.76	23
24	18.0	7.24	6 S	3.75		6.11	28	14.8		5.27	9	4.10	24
25		4.32	5	1.87	19.0	14.3	27 S	33.4	13.0	3.78	6 S	1.96	25
26		3.00	5	1.30	18.5	38.9	64 S	215		2.74	5	1.18	26
27		2.41	4	0.83	17.5	32.2	18 S	50.1		2.36	4	0.82	27
28		1.81	5	0.78	17.0	18.0	9 S	14.0		2.73	5	1.18	28
29	17.0	15.4	41 S	54.6		6.69	7	4.05		2.62	5	1.13	29
30	20.0	15.1	13 S	17.0		4.51	6	2.34		2.23	4	0.77	30
31	19.0	8.02	8 S	5.54		3.38	4	1.17					31
TOTAL		116.697		178.73		185.72		363.94		124.84		114.40	TOTAL
MEAN		3.76		5.64		5.99		11.7		4.16		3.81	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		2.01	5	0.87		1.57	3	0.41		5.60 B	9	4.35	1
2	13.0	11.8	44 S	44.9		1.56	2	0.27		8.40 B	7	5.08	2
3	9.0	8.00	12 S	8.29		2.50	5	1.08		10.4	8	7.19	3
4		5.28	8	3.65		2.89	5	1.25		18.4	29	46.1	4
5		4.04	7	2.44		6.42	21	11.6	2.0	18.2	12 S	18.9	5
6		3.20	6	1.66	8.0	20.3	31 S	54.4		11.8	8	8.16	6
7		2.66	5	1.15	7.0	12.1	7 S	7.32		8.91	6	4.62	7
8		2.29	5	0.99		7.44	6	3.86		7.06	6	3.66	8
9		2.05	4	0.71		5.86	6	3.04		5.58	5	2.41	9
10	6.0	1.96	4 S	0.68		4.65	7	2.81		5.30 B	7	3.21	10
11		1.78	4	0.62		3.76	6	1.95		4.70 B	9	3.65	11
12		1.73	5	0.75		3.46	4	1.20	0.1	4.40 B	10 S	3.80	12
13		1.67	4	0.58		5.48	17	8.05		4.00 B	7	2.42	13
14		1.87	5	0.81	5.0	27.7	37 S	88.6		3.65 B	6	1.89	14
15	9.0	7.21	25 S	15.6	5.0	17.8	11 S	16.9		3.45 B	6	1.79	15
16		6.83	3	1.77		21.2	18	33.0		3.30 B	14	3.99	16
17	6.0	5.23	4 S	1.81		16.7	9	13.0		11.0 B	39	37.1	17
18		3.96	4	1.37		11.1	6	5.75	0.1	9.40 B	8 S	6.50	18
19		3.00	5	1.30		8.31	5	3.59	0.1	7.80 B	4 S	2.70	19
20		2.57	7	1.55		6.74	4	2.33		6.60 B	4	2.28	20
21		2.38	6	1.23	8.0	6.01	3 S	1.56		5.70 B	4	1.97	21
22		2.26	5	0.98		6.09	4	2.10		5.00 B	4	1.73	22
23	5.0	2.11	6 S	1.09		7.26	5	3.14		4.50 B	3	1.17	23
24		1.96	6	1.02		6.94	6	3.60		4.10 B	5	1.77	24
25		1.73	6	0.90		7.69	7	4.65		3.60 B	4	1.24	25
26		1.80	5	0.78		6.14	6	3.18	2.0	17.5 B	49 S	74.1	26
27		1.76	4	0.61		5.59	6	2.90	1.0	16.6 B	13 S	18.6	27
28		1.71	4	0.59		4.90 B	6	2.54		15.1 B	5	6.52	28
29		1.67	4	0.58		4.75 B	11	4.51		18.5	4	6.39	29
30		1.62	4	0.56		4.60 B	7	2.78		15.1	3	3.91	30
31	6.0	1.60	3 S	0.41						8.64	4	2.99	31
TOTAL		>9.74		100.25		247.51		291.37		272.29		290.19	TOTAL
MEAN		3.22		3.23		8.25		9.71		8.78		9.36	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	20	
MAXIMUM DAILY	105	ON APR 18
MINIMUM DAILY	2	ON JAN 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	13.6	
MAXIMUM DAILY	726	ON APR 18
MINIMUM DAILY	0.27	ON NOV 02

TOTAL SUSPENDED SEDIMENT LOAD = 972.88 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 56 37 N
LONG 65 10 13 W

DRAINAGE AREA 391 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		14.0 B	1	1.21		6.40 B	7	3.87		8.80 B	7	5.32	1
2		13.1 B	1	1.13		6.20 B	7	3.75		8.50 B	6	4.41	2
3		12.3 B	2	2.13		7.20 B	7	4.35		8.30 B	5	3.59	3
4	1.3	11.8 B	3 S	3.06		9.00 B	7	5.44		8.00 B	4	2.76	4
5		11.5 B	4	3.97		15.0 B	7	9.07		7.70 B	4	2.66	5
6	1.5	12.4 B	6 S	6.43	0.1	21.0 B	6 S	10.9	0.1	9.00 B	3 S	2.33	6
7		15.0 B	7	9.07		20.2 B	6	10.5		10.0 B	3	2.59	7
8		14.5 B	8	10.0		19.5 B	6	10.1	0.1	11.8 B	3 S	3.06	8
9		13.7 B	9	10.7		18.5 B	6	9.59		13.8 B	3	3.58	9
10		13.3 B	9	10.3		17.7 B	6	9.18		15.7 B	4	5.43	10
11		12.8 B	9	9.95		17.0 B	7	10.3		18.0 B	3	4.67	11
12		12.3 B	9	9.56		16.2 B	7	9.80		21.0 B	3	5.44	12
13		12.0 B	9	9.33		15.3 B	7	9.25		25.0 B	4	8.64	13
14		11.4 B	9	8.86		14.7 B	7	8.89		24.0 B	4	8.29	14
15		11.0 B	9	8.55		14.2 B	7	8.59		22.7 B	4	7.85	15
16		10.7 B	9	8.32		13.5 B	7	8.16		21.8 B	4	7.53	16
17		10.3 B	9	8.01		13.2 B	8	9.12		20.5 B	4	7.08	17
18		10.0 B	9	7.78		12.7 B	8	8.78		19.9 B	4	6.88	18
19		9.60 B	9	7.46		12.2 B	8	8.43	0.1	19.0 B	4 S	6.57	19
20		9.20 B	9	7.15	0.1	11.7 B	8 S	8.09		18.3 B	4	6.32	20
21		8.90 B	9	6.92		11.3 B	8	7.81		17.5 B	4	6.05	21
22		8.60 B	9	6.69	0.1	10.8 B	9 S	8.40		16.8 B	4	5.81	22
23		8.30 B	9	6.45	0.1	10.6 B	13 S	11.9		16.2 B	3	4.20	23
24		8.10 B	9	6.30		10.1 B	15	13.1		15.5 B	3	4.02	24
25		7.90 B	9	6.14		9.80 B	14	11.9		14.9 B	3	3.86	25
26	0.1	7.55 B	9 S	5.87		9.40 B	10	8.12		14.3 B	3	3.71	26
27		7.40 B	9	5.75		9.20 B	9	7.15		13.8 B	3	3.58	27
28		7.10 B	9	5.52		9.00 B	7	5.44		13.2 B	2	2.28	28
29		7.00 B	9	5.44						12.7 B	3	3.29	29
30		6.70 B	8	4.63						12.5 B	2	2.16	30
31		6.50 B	8	4.49					0.1	12.3 B	2 S	2.13	31
TOTAL		324.95		207.17		361.60		239.98		471.50		146.09	TOTAL
MEAN		10.5		6.68		12.9		8.57		15.2		4.71	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		12.5 B	2	2.16	3.1	209	20 S	361		61.7	2	10.7	1
2		13.3 B	2	2.30	2.5	169	10 S	146		55.8	2	9.64	2
3		14.9 B	2	2.57	3.1	154	7 S	93.1	6.8	75.5	9 S	58.7	3
4		14.3 B	2	2.47	2.7	146	6 S	75.7		53.9	9	41.9	4
5	0.1	14.0 B	2 S	2.42	2.6	146	10 S	126		43.6	8	30.1	5
6		13.5 B	2	2.33	3.7	139	12 S	148		38.8	7	23.5	6
7		13.1 B	2	2.26	4.5	138	9 S	107	9.5	34.6	6 S	17.9	7
8		12.6 B	2	2.18	5.0	138	11 S	131		31.5	5	13.6	8
9		12.2 B	2	2.11	4.5	151	7 S	91.3		29.2	4	10.1	9
10		11.8 B	2	2.04	4.4	167	11 S	159		26.5	3	6.87	10
11		11.4 B	2	1.97		148	12	153		23.5	2	4.06	11
12	0.1	11.1 B	2 S	1.92		140	12	145	11.1	21.7	1 S	1.87	12
13		10.8 B	3	2.80	4.5	169	11 S	161		19.7	1	1.70	13
14		10.5 B	3	2.72	4.5	125	3 S	32.4		18.1	1	1.56	14
15	0.1	11.8 B	5 S	5.10	3.2	114	2 S	19.7		18.4	2	3.18	15
16		13.0 B	6	6.74	5.0	104	4 S	35.9	8.0	35.0	6 S	18.1	16
17		15.0 B	8	10.4		99.1	4	34.2		26.2	4	9.05	17
18		20.0 B	11	19.0		87.3	3	22.6		21.5	3	5.57	18
19	1.0	30.8 B	14 S	37.3	6.2	78.0	1 S	6.74		18.8	3	4.87	19
20		28.5 B	11	27.1		91.5	3	23.7		17.1	2	2.95	20
21	2.0	26.0 B	6 S	13.5	3.7	115	5 S	49.7	9.4	19.3	1 S	1.67	21
22		35.0 B	14	42.3		84.1	2	14.5		23.5	1	2.03	22
23		60.0 B	11	57.0		74.1	1	6.40		18.3	1	1.58	23
24		57.0 B	7	34.5	6.6	71.0	2 S	12.3		20.1	1	1.74	24
25		53.0	6	27.5		77.1	4	26.6	10.0	21.1	1 S	1.82	25
26	4.0	51.4	5 S	22.2		82.3	5	35.6		17.7	1	1.53	26
27		78.4	7	47.4		74.9	3	19.4		15.9	1	1.37	27
28		171	10	148		64.7	1	5.59	15.5	14.9	2 S	2.57	28
29		240	15	311		66.6	2	11.5		13.7	2	2.37	29
30	2.0	267	23 S	531		62.1	2	10.7		26.4	6	13.7	30
31					8.6	63.0	1 S	5.44					31
TOTAL		1 333.9		1 372.29		3 547.8		2 266.07		862.0		306.30	TOTAL
MEAN		44.5		45.7		114		73.1		28.7		10.2	MEAN

NEWFOUNDLAND

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	11.2	47.8	4 S	16.5		20.6	3	5.36	11.5	25.8	13 S	29.0	1
2		26.0	2	4.49	14.6	18.4	2 S	3.18		17.4	5	7.52	2
3		21.0	1	1.81		16.4	2	2.83	10.8	42.5	3 S	11.0	3
4		20.2	1	1.75		15.1	2	2.61	12.3	70.1	5 S	30.3	4
5	10.0	17.2	1 S	1.49		13.8	3	3.58		36.6	7	22.1	5
6		15.6	2	2.70		12.8	3	3.32	11.0	24.0	12 S	24.9	6
7		16.1	2	2.64		11.9	5	5.16		21.3	14	25.8	7
8		13.4	2	2.32		11.6	7	7.02		20.8	15	27.0	8
9		12.6	3	3.27	13.3	12.0	8 S	8.29		18.6	15	24.1	9
10		12.1	3	3.14		12.7	9	9.88		20.8	15	27.0	10
11		11.6	3	3.01	13.3	32.7	10 S	28.3		19.9	15	25.8	11
12	14.3	11.2	4 S	3.87		17.7	7	10.7		17.1	14	20.7	12
13		10.5	5	4.54		13.6	7	8.23	11.8	15.3	12 S	15.9	13
14	16.3	25.6	10 S	22.1		19.1	7	11.6		14.2	11	13.5	14
15		15.5	5	6.70		18.4	8	12.7		14.5	9	11.3	15
16		12.6	4	4.35	16.3	15.3	9 S	11.9	11.5	16.1	8 S	11.1	16
17		11.7	3	3.03		13.4	10	11.6		16.7	7	10.1	17
18		11.1	3	1.92		12.0	11	11.4		19.2	6	9.95	18
19	15.4	10.6	2 S	1.83		11.3	11	10.7		16.3	6	8.45	19
20		11.8	1	1.02		10.6	12	11.0		14.7	7	8.89	20
21		21.7	4	7.50		11.6	13	13.0	9.7	13.4	7 S	8.10	21
22	18.5	32.1	3 S	8.32		10.7	13	12.0		12.9	8	8.92	22
23		24.9	2	4.30	16.8	10.4	13 S	11.7		12.5	8	8.64	23
24	18.8	20.6	2 S	3.56		9.59	12	9.94		12.1	7	7.32	24
25		17.3	2	2.99		9.71	10	8.39		12.5	7	7.56	25
26	18.8	23.8	3 S	6.17		10.8	10	9.33		11.5	8	7.95	26
27		36.8	7	22.3	11.7	22.9	8 S	15.8		10.5	8 S	7.26	27
28		23.8	4	8.23		14.0	8	9.68	9.0	11.7	11 S	11.1	28
29		21.7	4	7.50		13.5	9	10.5	12.2	12.0	12 S	12.4	29
30	13.8	33.1	5 S	14.3	10.3	11.1	11 S	10.5	8.0	10.5	8	7.26	30
31		26.2	4	9.05		10.4	13	11.7					31
TOTAL		614.2		186.50		488.10		301.86		581.5		450.92	TOTAL
MEAN		19.8		6.02		14.3		9.74		19.4		15.0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	11.0	29.8	11 S	28.3	7.6	12.2	10 S	10.5		26.7	11	25.4	1
2		70.9	15	91.9		11.6	8	8.02		26.3	11	25.0	2
3	6.0	47.0	3 S	12.2		11.3	6	5.86	0.1	24.9	10 S	21.5	3
4		27.5	1	2.38		28.7	13	32.2		43.2	18	67.2	4
5		22.0	1	1.90	8.9	101	26 S	227	1.5	49.3	12 S	51.1	5
6		19.5	2	3.37	8.5	58.8	14 S	71.1		35.2	6	18.2	6
7		18.1	2	3.13	6.0	40.1	13 S	45.0	1.8	42.1	9 S	32.7	7
8		17.0	4	5.88	4.5	33.5	9 S	26.0		37.2	9	28.9	8
9		15.9	5	6.87		29.9	4	10.3		32.7	10	28.3	9
10		15.1	8	10.4	4.5	27.0	2 S	4.67		30.5	10	26.4	10
11	4.5	14.0	10 S	12.1		25.6	2	4.42		29.0 B	10	25.1	11
12		13.4	11	12.7		27.0	2	4.67		27.8 B	10	24.0	12
13		12.6	12	13.1	5.8	34.8	12 S	36.1		27.0 B	10	23.3	13
14		12.2	12	12.6		29.8	14	36.0	0.1	25.5 B	10 S	22.0	14
15	7.3	15.0	13 S	16.8	4.0	28.0	12 S	29.0		24.5 B	11	23.3	15
16		23.9	10	20.6		27.3	12	28.3	0.1	23.8 B	11 S	22.6	16
17		33.5	10	28.9		26.8	12	27.8	2.8	47.6	22 S	90.5	17
18	6.0	39.0	5 S	16.8	3.2	26.1	11 S	24.8		45.2	19	74.2	18
19	6.0	25.1	2 S	4.34		25.1	12	26.0		36.3	12	37.6	19
20		21.2	2	3.66		23.9	10	20.6		35.0 B	11	33.3	20
21		19.6	2	3.39		23.5	8	16.2	2.5	33.5 B	11 S	31.8	21
22	8.2	24.8	7 S	15.0		38.3	15	49.6		31.5 B	10	27.2	22
23		21.2	8	14.7	3.3	38.6	4 S	13.3		30.0 B	9	23.3	23
24		18.8	9	14.6	5.6	38.2	8 S	26.4		29.0 B	8	20.0	24
25	4.5	17.6	11 S	16.7		48.2	13	54.1		27.0 B	6	14.0	25
26		16.8	12	17.4		37.1	11	35.3		26.0 B	4	8.99	26
27		15.6	13	17.5		33.3	11	31.6	0.1	25.0 B	2 S	4.32	27
28		14.7	13	16.5		31.1	11	29.6		31.2	1	2.70	28
29	5.5	13.9	13 S	15.6		29.7	11	28.2	1.5	61.4	8 S	42.4	29
30		13.1	12	13.6	2.2	28.6	11 S	27.2	0.8	52.9	3 S	13.7	30
31		12.6	11	12.0						40.0	2	6.91	31
TOTAL		681.4		468.92		974.9		989.84		1 057.3		895.92	TOTAL
MEAN		22.0		15.0		32.5		33.0		34.1		28.9	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	8	
MAXIMUM DAILY	26	ON NOV 05
MINIMUM DAILY	1	ON JAN 01

B - ICE CONDITIONS

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	31.4	
MAXIMUM DAILY	531	ON APR 30
MINIMUM DAILY	1.02	ON JUL 20

S - SAMPLE(S) COLLECTED THIS DAY

TOTAL SUSPENDED SEDIMENT LOAD 7 827.86 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 34 31 N
LONG 58 21 48 W
DRAINAGE AREA 640 km^2
NATURAL FLOW

HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY - STATION NO. 02IA002

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.900 B	5	0.39		0.520 B	4	0.18	0.1	0.840 B	12 S	0.87	1
2		0.860 B	5	0.37		0.495 B	3	0.13		0.793 B	11	0.75	2
3		0.820 B	4	0.28		0.480 B	2	0.08		0.730 B	10	0.63	3
4		0.770 B	4	0.27	0.1	0.740 B	5 S	0.32		0.710 B	9	0.55	4
5		1.50 B	6	0.78		1.40 B	10	1.21	0.1	0.690 B	8 S	0.48	5
6	0.1	5.00 B	4 S	1.73		2.50 B	9	1.94		0.660 B	8	0.46	6
7		3.44	3	0.89		1.80 B	3	0.47		0.820 B	10	0.71	7
8		2.16	3	0.56		1.45 B	1	0.13		1.15 B	15	1.49	8
9		1.82 B	3	0.47		1.28 B	1	0.11		1.52 B	9	1.18	9
10		1.50 B	4	0.52		1.12 B	1	0.10		1.93 B	5	0.83	10
11		1.30 B	3	0.34	0.1	1.03 B	1 S	0.09		1.55 B	4	0.54	11
12		1.15 B	4	0.40		0.950 B	1	0.08	0.1	1.35 B	4 S	0.47	12
13	0.1	1.02 B	5 S	0.44		0.860 B	1	0.07		1.20 B	4	0.41	13
14	0.1	0.920 B	7 S	0.56		0.780 B	2	0.13		1.10 B	5	0.48	14
15		0.820 B	7	0.50		0.730 B	2	0.13		0.960 B	7	0.58	15
16		0.740 B	7	0.45		0.680 B	2	0.12		0.900 B	8	0.62	16
17		0.840 B	8	0.58		0.620 B	2	0.11		0.830 B	9	0.65	17
18		1.00 B	10	0.86	0.1	0.580 B	2 S	0.10	0.1	0.760 B	9 S	0.59	18
19		1.17 B	7	0.71		0.540 B	2	0.09		0.710 B	8	0.49	19
20		1.31 B	6	0.68		0.500 B	2	0.09		0.670 B	8	0.46	20
21	0.1	1.27 B	6 S	0.66		0.560 B	2	0.10		0.630 B	7	0.38	21
22		1.05 B	5	0.45	0.1	0.740 B	6 S	0.38		0.600 B	7	0.36	22
23		0.960 B	5	0.41		1.20 B	10	1.04		0.550 B	7	0.33	23
24		0.890 B	5	0.38		1.12 B	11	1.06	0.1	0.520 B	7 S	0.31	24
25		0.820 B	5	0.35		1.05 B	12	1.09		0.560 B	7	0.34	25
26		0.740 B	5	0.32		0.990 B	13	1.11		0.700 B	7	0.42	26
27		0.680 B	6	0.35		0.940 B	14	1.14		2.00 B	8	1.38	27
28	0.1	0.640 B	6 S	0.33		0.880 B	13	0.99		1.50 B	10	1.30	28
29		0.600 B	5	0.26						1.20 B	11	1.14	29
30		0.570 B	5	0.25						0.970 B	13	1.09	30
31		0.540 B	4	0.19					0.1	2.00 B	19 S	3.28	31
TOTAL		37.800		15.73		26.535		12.59		31.103		23.57	TOTAL
MEAN		1.22		0.51		0.948		0.45		1.00		0.76	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		4.42	16	6.11	3.0	21.7	16 S	30.0		7.03	2	1.21	1
2		3.53	8	2.44		13.4	4	4.63		6.72	2	1.16	2
3		2.08	6	1.08		13.2	4	4.56		7.50	2	1.30	3
4		1.59	5	0.69		14.5	3	3.76	12.5	5.02	1 S	0.43	4
5		1.33	4	0.46		15.1	3	3.91		3.75	1	0.32	5
6		1.22	3	0.32	6.0	16.2	2 S	2.80		3.32	2	0.57	6
7	0.1	1.10	3 S	0.29		16.4	2	2.83		3.14	2	0.54	7
8		1.03	3	0.27		18.4	2	3.18		3.00	2	0.52	8
9		0.925	3	0.24		20.0	2	3.46	17.0	2.68	2 S	0.46	9
10		0.843	3	0.22		20.8	2	3.59		1.91	2	0.33	10
11		0.882	4	0.30		17.0	2	2.94		1.60	2	0.28	11
12		0.869	4	0.30		18.1	1	1.56	15.0	1.40	2 S	0.24	12
13		2.35	5	1.02	3.5	18.7	1 S	1.62		1.23	2	0.21	13
14	0.1	4.65	9 S	3.62		17.7	1	1.53		1.08	2	0.19	14
15		4.56	10	3.94		13.9	1	1.20		3.63	2	0.63	15
16		3.14	8	2.17		10.7	1	0.92	9.5	3.57	2 S	0.62	16
17		7.69	11	7.31		9.60	1	0.83		2.12	1	0.18	17
18		20.2	20	34.9		7.29	1	0.63		1.42	1	0.12	18
19		14.3	19	23.5		5.84	1	0.50		1.11	1	0.10	19
20		7.82	13	8.78	4.0	9.67	6 S	5.01		1.92	2	0.33	20
21	0.5	18.5	14 S	22.4		10.2	8	7.05		1.81	2	0.31	21
22		19.4	19	31.8		6.60	4	2.28		1.53	1	0.13	22
23		8.67	7	5.24		5.55	2	0.96	17.0	1.79	1 S	0.15	23
24		4.42	3	1.15		6.02	2	1.04		2.13	2	0.37	24
25		3.18	4	1.10		7.56	3	1.96		1.71	1	0.15	25
26		9.48	5	4.10		9.96	2	1.72		1.31	2	0.23	26
27		29.1	6	15.1		7.35	2	1.27		1.25	2	0.22	27
28		44.8	8	31.0	12.0	5.72	3 S	1.48		0.999	2	0.17	28
29	2.0	48.6	23 S	96.6		5.68	3	1.87		1.77	3	0.46	29
30	2.0	60.8	40 S	210		5.58	2	0.96		3.11	8	2.15	30
31						6.49	2	1.12					31
TOTAL		331.479		516.45		374.91		100.77		80.559		14.08	TOTAL
MEAN		11.0		17.2		12.1		3.25		2.69		0.47	MEAN

NEWFOUNDLAND

HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY - STATION NO. 02ZA002

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1.82	5	0.79		1.02	3	0.26		0.822	3	0.21	1
2	18.0	1.26	3 S	0.33		0.753	3	0.20	12.0	0.860	2 S	0.15	2
3		1.01	3	0.26		0.633	3	0.16		3.27	11	3.11	3
4		0.803	3	0.21	17.0	0.536	3 S	0.14		4.61	13	5.18	4
5		0.671	3	0.17		0.479	3	0.12		2.07	10	1.79	5
6		0.631	3	0.16		0.485	4	0.15		1.11	8	0.77	6
7		0.590	2	0.10		0.523	4	0.18		1.09	7	0.66	7
8	22.0	0.554	2 S	0.10		0.770	4	0.27	13.0	0.910	5 S	0.39	8
9		0.519	3	0.13		0.707	4	0.24		0.775	7	0.47	9
10		0.470	3	0.12		0.706	4	0.24		0.788	8	0.54	10
11		0.438	4	0.15		0.859	6	0.45		0.665	7	0.40	11
12		0.409	4	0.14	15.0	0.679	7 S	0.41		0.569	6	0.29	12
13		0.438	4	0.15		0.606	9	0.47		0.507	7	0.31	13
14	24.0	0.412	4 S	0.14		1.01	14	1.22		0.457	7	0.28	14
15		0.522	5	0.23		0.882	15	1.14		0.506	7	0.31	15
16		0.511	5	0.22		0.708	15	0.92	11.0	0.509	7 S	0.31	16
17		0.534	4	0.18		0.588	15	0.76		0.460	7	0.28	17
18		0.635	4	0.22		0.509	15	0.66		0.419	7	0.25	18
19		1.64	7	0.99	17.5	0.431	14 S	0.52		0.414	7	0.25	19
20		1.79	5	0.77		0.376	15	0.49		0.385	7	0.23	20
21		3.77	5	1.63		0.381	15	0.49		0.474	7	0.29	21
22	28.0	2.27	3 S	0.59		0.366	14	0.44		0.558	7	0.34	22
23		1.41	3	0.37		0.359	14	0.43	14.5	0.674	7 S	0.41	23
24		0.945	3	0.24		0.352	14	0.43		0.598	7	0.36	24
25		0.820	3	0.21		0.373	13	0.42		0.536	6	0.28	25
26		1.27	3	0.33	15.0	0.554	12 S	0.57		0.473	6	0.25	26
27		1.24	3	0.32		0.806	11	0.77		0.427	5	0.18	27
28	20.0	0.959	3 S	0.25		0.696	10	0.60		0.868	8	0.60	28
29		1.38	3	0.36		0.656	8	0.45		0.944	7	0.57	29
30		2.56	3	0.66		0.518	7	0.31	8.5	0.693	4 S	0.24	30
31		1.57	3	0.41		0.540	5	0.23					31
TOTAL		33.851		10.93		18.821		14.14		27.441		19.70	TOTAL
MEAN		1.09		0.35		0.607		0.46		0.915		0.66	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.42	8	0.98		0.565	10	0.49		0.880 B	7	0.53	1
2		8.48	16	11.7		0.538	10	0.46	1.0	0.780 B	8 S	0.54	2
3		8.30	17	12.2	4.5	0.513	11 S	0.49		0.725 B	20	1.25	3
4		3.14	10	2.71		0.551	12	0.57		14.9	42	54.1	4
5		1.68	7	1.02		1.50	16	2.07		5.50	25	11.9	5
6	8.0	1.07	6 S	0.55		1.70	16	2.35		8.29	22	15.8	6
7		0.826	6	0.43		1.40	13	1.57		8.88	18	13.8	7
8		0.671	6	0.35	2.0	1.26	11 S	1.20		3.94	5	1.70	8
9		0.593	6	0.31		1.17	9	0.91	0.1	2.20	3 S	0.57	9
10		0.547	6	0.28	2.0	0.980	8 S	0.68		1.70 B	3	0.44	10
11		0.508	6	0.26		0.835	7	0.51		1.40 B	3	0.36	11
12		0.478	7	0.29		2.63	14	3.18		1.25 B	3	0.32	12
13	8.5	0.460	7 S	0.28		6.45	21	11.7		1.08 B	4	0.37	13
14		0.438	7	0.26		4.99	17	7.33		0.980 B	5	0.42	14
15		0.824	8	0.57		2.65	11	2.52		0.920 B	10	0.79	15
16		1.31	12	1.36		6.43	16	8.89	0.1	1.30 B	26 S	2.92	16
17		3.64	15	4.72		3.58	8	2.47		14.2	31	38.0	17
18		3.95	21	7.17	3.5	2.23	3 S	0.58		5.31	19	8.72	18
19		2.17	18	3.37		1.17	2	0.20		2.33	11	2.21	19
20		1.31	12	1.36		0.900 B	2	0.16		3.06	6	1.59	20
21	11.0	1.12	8 S	0.77		1.03	3	0.27		5.63	6	2.92	21
22		2.12	10	1.83		4.15	8	2.87		2.88	5	1.24	22
23		1.51	10	1.30		3.29	3	0.85		1.77	5	0.76	23
24		1.13	9	0.88		6.54	2	1.13	0.1	1.38 B	5 S	0.60	24
25		0.974	8	0.67	4.0	4.63	3 S	1.20		1.79	6	0.93	25
26		0.994	8	0.69		2.51	3	0.65		5.78	13	6.49	26
27	5.0	0.807	8 S	0.56		1.69	4	0.58		6.26	10	5.41	27
28		0.705	8	0.49		1.29	4	0.45		2.95	16	4.08	28
29		0.645	8	0.45		1.15 B	5	0.50		19.5	44	74.1	29
30		0.591	9	0.46		1.05 B	6	0.54	0.1	8.06	36 S	25.1	30
31		0.586	9	0.46						3.24	22	6.16	31
TOTAL		52.997		58.73		69.372		57.37		138.865		284.12	TOTAL
MEAN		1.71		1.89		2.31		1.91		4.48		9.17	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	11	
MAXIMUM DAILY	44	ON DEC 29
MINIMUM DAILY	1	ON FEB 08

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	3.09	
MAXIMUM DAILY	210	ON APR 30
MINIMUM DAILY	0.07	ON FEB 13

TOTAL SUSPENDED SEDIMENT LOAD 1 128.18 t

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 06 33 N
LONG 58 47 04 W
DRAINAGE AREA 72.0 km^2
NATURAL FLOW

NORTHEAST BROOK NEAR RODDICKTON - STATION NO. 02YD002

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		4.80 B	21	8.71		1.80 B	3	0.47		0.540 B	2	0.09	1
2		4.60 B	21	8.35		1.70 B	3	0.44		0.520 B	2	0.09	2
3		4.40 B	21	7.98		1.63 B	4	0.56		0.505 B	3	0.13	3
4		4.90 B	21	8.89		1.54 B	5	0.67		0.495 B	2	0.09	4
5		5.25 B	21	9.53	1.5	1.48 B	7 S	0.90	1.5	0.475 B	2 S	0.08	5
6		5.50 B	21	9.98		1.40 B	7	0.85		0.460 B	2	0.08	6
7		5.35 B	21	9.71		1.34 B	7	0.81		0.450 B	2	0.08	7
8	1.5	5.20 B	21 S	9.43		1.28 B	6	0.66		0.435 B	2	0.08	8
9		5.00 B	21	9.07		1.23 B	6	0.64		0.425 B	2	0.07	9
10		4.80 B	21	8.71		1.16 B	6	0.60		0.410 B	2	0.07	10
11		4.65 B	20	8.04		1.11 B	6	0.58		0.400 B	2	0.07	11
12		4.45 B	20	7.69	1.5	1.06 B	6 S	0.55	1.5	0.390 B	2 S	0.07	12
13		4.25 B	20	7.34		1.02 B	6	0.53		0.540 B	2	0.09	13
14		4.10 B	20	7.08		0.970 B	6	0.50		0.750 B	2	0.13	14
15	1.5	3.91 B	19 S	6.42		0.930 B	6	0.48		1.00 B	2	0.17	15
16		3.78 B	18	5.88		0.890 B	6	0.46		0.980 B	2	0.17	16
17		3.61 B	17	5.30		0.854 B	6	0.44		0.955 B	2	0.17	17
18		3.49 B	16	4.82		0.820 B	8	0.57		0.935 B	2	0.16	18
19		3.35 B	15	4.34	1.5	0.790 B	13 S	0.89	1.5	0.910 B	2 S	0.16	19
20		3.21 B	15	4.16		0.755 B	12	0.78		0.890 B	2	0.15	20
21		3.10 B	14	3.75		0.725 B	10	0.63		0.870 B	2	0.15	21
22	1.5	2.95 B	13 S	3.31		0.700 B	9	0.54		0.850 B	4	0.29	22
23		2.82 B	12	2.92		0.670 B	7	0.41		0.839 B	8	0.58	23
24		2.70 B	11	2.57		0.650 B	6	0.34		0.825 B	8	0.57	24
25		2.58 B	10	2.23		0.625 B	5	0.27		0.810 B	8	0.56	25
26		2.50 B	8	1.73	1.5	0.600 B	3 S	0.16	1.5	0.800 B	8 S	0.55	26
27		2.36 B	5	1.02		0.580 B	3	0.15		0.960 B	10	0.83	27
28		2.23 B	3	0.58		0.560 B	2	0.10		1.20 B	10	1.04	28
29	1.5	2.11 B	3 S	0.55						1.14 B	8	0.79	29
30		2.00 B	3	0.52						1.09 B	7	0.66	30
31		1.89 B	3	0.49						1.06 B	6	0.55	31
TOTAL		115.84		171.10		28.869		14.98		22.909		8.77	TOTAL
MEAN		3.74		5.52		1.03		0.54		0.739		0.28	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1.20 B	5	0.52	2.0	11.3	2 S	1.95		23.2	10	20.0	1
2	1.5	1.32 B	3 S	0.34		13.7	2	2.37		21.6	10	18.7	2
3		1.47 B	4	0.51		16.3	3	4.22		21.2	10	18.3	3
4		1.67 B	5	0.72		19.4	3	5.03		23.0	11	21.9	4
5		1.90 B	7	1.15	2.0	23.0	3 S	5.96	8.0	25.1	13 S	28.2	5
6		2.25 B	9	1.75		26.3	3	6.82		28.0	15	36.3	6
7		2.60 B	8	1.80		31.2	3	8.09		29.3	18	45.6	7
8		2.88 B	7	1.74	2.5	34.5	2 S	5.96		27.6	17	40.5	8
9	1.5	3.00 B	5 S	1.30		38.2	3	9.90		24.9	14	30.1	9
10		2.74 B	5	1.18		42.4	5	18.3		22.0	12	22.8	10
11		2.60 B	5	1.12		43.7	7	26.4	8.5	19.4	7 S	11.7	11
12		2.46 B	5	1.06		42.9	5	18.5		17.4	6	9.02	12
13		2.35 B	4	0.81		36.2	3	9.38		15.9	6	8.24	13
14		2.25 B	4	0.78	2.5	30.1	3 S	7.80		14.9	5	6.44	14
15		2.19 B	4	0.76		26.1	3	6.77		14.1	5	6.09	15
16	2.0	2.10 B	3 S	0.54		23.8	3	6.17		13.7	5	5.92	16
17		2.02 B	3	0.52		23.3	5	10.1		13.5	5	5.83	17
18		1.96 B	4	0.68	2.5	22.8	9 S	17.7	11.0	13.8	5 S	5.96	18
19		1.92 B	7	1.16		20.9	5	9.03		14.3	8	9.88	19
20		1.86 B	5	0.80		19.5	4	6.74		13.9	10	12.0	20
21		1.82 B	4	0.63		19.0	3	4.92		13.1	10	11.3	21
22		1.78 B	4	0.62	2.5	18.4	2 S	3.18		11.9	9	9.25	22
23	2.0	1.75 B	4 S	0.60		17.4	2	3.01		10.7	9	8.32	23
24		1.72 B	4	0.59		17.2	2	2.97		9.83	9	7.64	24
25		1.69 B	4	0.58		19.9	5	8.60	12.0	9.50	9 S	7.39	25
26		2.20 B	3	0.57		25.9	10	22.4		9.40	10	8.12	26
27		2.90 B	3	0.75		29.3	14	35.4		9.41	11	8.94	27
28		3.80 B	3	0.98		29.2	14	35.3		9.17	11	8.72	28
29		7.28	2	1.26	5.0	27.5	12 S	28.5		8.53	11	8.11	29
30		9.08	2	1.57		25.9	11	24.6		7.95	11	7.56	30
31						24.5	11	23.3					31
TOTAL		76.78		27.39		799.8		379.37		496.29		448.83	TOTAL
MEAN		2.56		0.91		25.8		12.2		16.5		15.0	MEAN

NEWFOUNDLAND

NORTHEAST BROOK NEAR RODDICKTON - STATION NO. 02YD002

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		7.47	11	7.10		2.65	9	2.06		0.785	11	0.75	1
2	13.0	6.92	10 S	5.98		2.76	10	2.38		0.765	11	0.73	2
3		6.68	9	5.19		2.79	10	2.41	19.0	0.754	11 S	0.72	3
4		6.42	7	3.88		2.67	9	2.08		0.822	11	0.78	4
5		6.06	5	2.62		2.57	9	2.00		0.841	11	0.80	5
6		5.56	4	1.92	17.5	2.44	8 S	1.69		0.789	11	0.75	6
7	13.0	5.21	2 S	0.90		2.38	8	1.65		0.934	11	0.89	7
8		4.92	2	0.85		2.30	8	1.59		1.09	12	1.13	8
9	14.0	4.54	4 S	1.57		2.17	8	1.50		1.10	12	1.14	9
10		4.11	8	2.84		2.05	8	1.42		1.10	12	1.14	10
11		3.82	10	3.30		1.98	8	1.37	14.0	1.17	12 S	1.21	11
12	14.5	3.46	10 S	2.99		1.84	8	1.27		1.20	12	1.24	12
13		3.24	10	2.80		1.73	7	1.05		1.13	12	1.17	13
14		3.09	10	2.67	19.5	1.67	14 S	2.02		1.11	12	1.15	14
15		2.90	9	2.26		1.62	7	0.98	14.0	1.27	12 S	1.32	15
16		2.75	10	2.38		1.55	7	0.94		1.25	12	1.30	16
17		2.80	11	2.66		1.40	7	0.85		1.51	12	1.57	17
18		2.59	11	2.46		1.33	6	0.69	12.5	2.23	12 S	2.31	18
19		2.50	11	2.38		1.19	6	0.62		2.45	12	2.54	19
20		2.44	11	2.32	19.5	1.12	6 S	0.58		2.75	13	3.09	20
21		2.36	11	2.24		1.03	6	0.53		3.09	13	3.47	21
22		2.31	11	2.20		0.901	6	0.47		3.31	13	3.72	22
23	15.0	2.24	11 S	2.13		0.818	6	0.42		3.39	12	3.51	23
24		2.23	11	2.12		0.719	6	0.37		3.42	11	3.25	24
25		2.13	11	2.02		0.730	6	0.38	12.0	3.35	10 S	2.89	25
26		2.09	11	1.99		0.765	7	0.46		3.14	10	2.71	26
27		2.83	10	2.10		0.910	10	0.79		2.98	10	2.57	27
28		2.37	10	2.05	19.5	0.935	10 S	0.81		2.93	10	2.53	28
29		2.29	10	1.98		0.887	10	0.77		2.76	10	2.38	29
30	17.0	2.55	9 S	1.98		0.793	10	0.69		2.57	10	2.22	30
31		2.61	9	2.03		0.748	10	0.65					31
TOTAL		113.09		81.91		49.446		35.49		55.990		54.98	TOTAL
MEAN		3.65		2.64		1.59		1.14		1.87		1.83	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	12.0	2.50	10 S	2.16		2.71	8	1.87		4.30 B	16	5.94	1
2		2.44	13	2.74		2.57	7	1.55		4.00 B	15	5.18	2
3		2.29	13	2.57		2.45	6	1.27	1.5	3.82 B	14 S	4.62	3
4		2.17	13	2.44		2.45	5	1.06		3.65 B	14	4.42	4
5		2.04	13	2.29		2.97	8	2.05		3.50 B	13	3.93	5
6	7.0	1.95	13 S	2.19	6.0	8.50	6 S	4.41		4.50 B	13	5.05	6
7		1.86	9	1.45		10.2	5	4.41		3.85 B	12	3.99	7
8		1.75	7	1.06	2.0	11.8	3 S	3.06		3.60 B	12	3.73	8
9	7.0	1.64	4 S	0.57		11.7	12	12.1		3.40 B	12	3.53	9
10		1.55	4	0.54		10.8	12	11.2	1.0	3.20 B	11 S	3.04	10
11		1.44	4	0.50		9.76	11	9.28		3.00 B	11	2.85	11
12		1.37	4	0.47	3.0	8.84	11 S	8.40		2.87 B	10	2.48	12
13		1.30	4	0.45		8.00	11	7.60		2.75 B	10	2.38	13
14		1.25	4	0.43		7.38	10	6.38		2.60 B	10	2.25	14
15		1.28	5	0.55		6.74	10	5.82		2.47 B	10	2.13	15
16	7.0	1.48	8 S	1.02		6.54	9	5.09		2.35 B	10	2.03	16
17		2.20	10	1.90		6.33	9	4.92	1.0	2.22 B	9 S	1.73	17
18		3.16	10	2.73		5.84	9	4.54		2.11 B	9	1.64	18
19		3.47	10	3.00	2.0	5.44	8 S	3.76		2.01 B	11	1.91	19
20		3.92	10	3.39		5.02	8	3.47		1.93 B	12	2.00	20
21		4.15	10	3.59		4.69	8	3.24		1.84 B	12	1.91	21
22	7.0	4.30	10 S	3.72		4.66	7	2.82		1.75 B	12	1.81	22
23		4.20	10	3.63		5.10	7	3.08		1.68 B	12	1.74	23
24		4.05	10	3.50		5.35	8	3.70	1.0	1.60 B	12 S	1.66	24
25		3.77	10	3.26		6.12	9	4.76		1.53 B	12	1.59	25
26		3.66	11	3.48	1.5	5.90 B	12 S	6.12		1.48 B	11	1.41	26
27		3.42	11	3.25		5.50 B	15	7.13		1.40 B	10	1.21	27
28		3.27	11	3.11		5.10 B	17	7.49		1.34 B	10	1.16	28
29	6.5	3.14	11 S	2.98		4.80 B	16	6.64		1.28 B	9	1.00	29
30		2.95	10	2.55		4.50 B	16	6.22		1.23 B	9	0.96	30
31		2.82	9	2.19					1.0	1.17 B	8 S	0.81	31
TOTAL		80.79		67.71		187.76		153.44		78.43		80.09	TOTAL
MEAN		2.61		2.18		6.26		5.11		2.53		2.58	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	8	
MAXIMUM DAILY	21	ON JAN 01
MINIMUM DAILY	2	ON FEB 28

E - ICE CONDITIONS

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	4.18	
MAXIMUM DAILY	45.6	ON JUN 07
MINIMUM DAILY	0.07	ON MAR 09

5 - SAMPLE(S) COLLECTED THIS DAY

TOTAL SUSPENDED SEDIMENT LOAD 1 524.06 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 35 44 N
LONG 56 06 44 W
DRAINAGE AREA 200 km^2
NATURAL FLOW

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZM008

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.949	6	0.49		1.02	3	0.26		1.37	5	0.59	1
2		0.902	5	0.39		1.04	3	0.27		1.13 B	5	0.49	2
3		0.897	4	0.31		0.983	3	0.25	0.5	1.00 B	4 S	0.35	3
4		0.919	4	0.32		3.18	17	4.67		0.965 B	3	0.25	4
5	1.5	0.902	3 S	0.23	0.5	5.36	23 S	10.7	0.5	0.939 B	2 S	0.16	5
6		2.57	5	1.11		3.35	9	2.60		2.45	11	2.33	6
7		1.61	3	0.42		2.52	7	1.52		2.31	8	1.60	7
8		1.23	3	0.32		1.88	6	0.97	0.5	12.9	17 S	18.9	8
9		0.962	2	0.17		1.50 B	5	0.65	0.5	17.3	37 S	55.3	9
10		2.74	7	1.66		1.30 B	4	0.45		7.18	24	14.9	10
11		2.85	8	1.97		1.10 B	3	0.29		3.68	14	4.45	11
12		1.66	6	0.86	0.5	0.940 B	2 S	0.16	1.5	3.52	8 S	2.43	12
13		1.25	5	0.54		0.840 B	1	0.07		3.46	7	2.09	13
14		1.10	3	0.29		0.800 B	1	0.07		2.44	4	0.84	14
15		2.00	9	1.56		1.00 B	8	0.69		2.89	3	0.75	15
16		3.82	10	3.30		0.850 B	5	0.37		2.38	3	0.62	16
17		2.23	4	0.77		0.780 B	2	0.13		1.82	2	0.31	17
18		1.79	4	0.62	0.5	0.700 B	2 S	0.12	0.5	1.54	2 S	0.27	18
19		1.60 B	4	0.55		0.660 B	2	0.11		1.37	2	0.24	19
20	0.5	1.30 B	3 S	0.34		0.640 B	2	0.11		1.23	2	0.21	20
21		1.10 B	3	0.29		0.955	4	0.33		1.16	2	0.20	21
22		0.960 B	3	0.25		2.27	10	1.96		1.11	2	0.19	22
23		0.900 B	3	0.23		1.85	4	0.64		1.05	2	0.18	23
24		0.850 B	3	0.22		3.93	7	2.38		0.958	2	0.16	24
25		1.93	6	1.00		3.15	5	1.36		0.973	3	0.25	25
26	0.5	1.93	5 S	0.83		2.59	4	0.90		1.20	4	0.81	26
27		1.41	5	0.61		2.22	3	0.58		4.97	9	3.86	27
28		1.27	4	0.44		1.78	7	1.08		6.78	16	9.37	28
29		1.39	5	0.60						3.16	10	2.73	29
30		1.22	4	0.42						2.08	8	1.44	30
31		1.09	4	0.38					0.5	1.62	6 S	0.84	31
TOTAL		47.331		21.49		49.188		33.69		96.931		126.71	TOTAL
MEAN		1.53		0.69		1.76		1.20		3.13		4.09	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1.56	4	0.57		3.40	13	3.82		0.790	3	0.20	1
2	4.5	4.22	22 S	8.02		3.27	12	3.39		0.709	3	0.18	2
3		3.69	20	6.38		3.37	14	4.08		0.700	3 S	0.18	3
4		2.30	10	1.99		3.65	13	4.10	9.5	0.724	4 S	0.25	4
5	3.0	2.18	9 S	1.70	10.0	3.28	8 S	2.27		0.619	4 S	0.21	5
6		2.27	9	1.77		2.75	5	1.19		0.550	3	0.14	6
7		3.70	12	3.84	11.0	2.49	3 S	0.65		0.541	8 S	0.37	7
8		8.40	19	13.8		1.99	2	0.34	10.5	0.497	10 S	0.43	8
9		4.69	12	4.86		2.80	7	1.69		0.491	9	0.38	9
10		3.43	10	2.96		6.17	20	10.7		0.510	7	0.31	10
11		2.91	9	2.26		3.36	16	4.64	7.0	0.513	6 S	0.27	11
12		2.38	7	1.44		2.39	11	2.27		0.503	5 S	0.22	12
13		2.60 A	6	1.35	7.5	16.9	41 S	59.9		0.479	5	0.21	13
14		2.17 A	6	1.12	5.0	9.95	45 S	38.7		0.465	6 S	0.24	14
15	3.5	8.06 E	19 S	13.2		10.1	45	39.3		0.449	9 S	0.35	15
16		4.57 A	8	3.16		5.30	32	14.7		4.26	20	7.36	16
17		5.01	6	2.60		3.94	22	7.49		2.77	11 S	2.63	17
18		4.48	5	1.94		3.94	17	5.79		1.39	9	1.08	18
19		6.65	6	3.45	7.0	3.93	17 S	5.77		1.09	8 S	0.75	19
20		4.99	6	2.59		3.86	22 S	7.34		3.83	39 S	12.9	20
21		3.93	5	1.70		3.41	3 S	0.88	10.0	16.9	70 S	102	21
22		10.1	11	9.60		2.23	2	0.39	8.0	3.82	6 S	1.98	22
23	2.5	6.00	6 S	3.11		1.75	3 S	0.45		2.27	5	0.98	23
24		3.58	2	0.62		1.47	4	0.51		2.92	25	6.31	24
25		3.22	3	0.83		1.23	2 S	0.21	9.5	2.59	8 S	1.79	25
26		3.20	3	0.83		1.15	3 S	0.30		1.94	5 S	0.84	26
27		4.20	6	2.18		1.05	3	0.27		1.54	5	0.67	27
28	7.0	5.33	16 S	7.37	8.5	0.920	3 S	0.24		1.49	4 S	0.51	28
29		5.40	15	7.00		0.935	3	0.24	12.0	1.18	3 S	0.31	29
30		3.95	14	4.78		0.880	3	0.23	10.0	1.45	7 S	0.88	30
31						0.777	3 S	0.20					31
TOTAL		129.27		117.02		112.642		222.85		57.980		144.93	TOTAL
MEAN		4.31		3.90		3.63		7.16		1.93		4.83	MEAN

NEWFOUNDLAND

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZM008

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		6.81	19	10.5		0.380	6	0.20		0.687	4	0.24	1
2		2.52	11	2.40		0.317	5	0.14		0.790	11	0.75	2
3		1.63	11	1.55		0.321	5	0.14	16.0	2.68	26 S	5.93	3
4		1.31	11	1.25		0.658	5	0.28		3.20	21	5.81	4
5		1.12	11	1.06		0.424	4	0.15		2.27	12	2.35	5
6	13.0	0.999	9 S	0.78	10.0	0.321	3 S	0.08		1.32	11	1.25	6
7		0.913	8	0.63		0.287	3	0.07	16.0	1.02	8 S	0.71	7
8		0.943	8	0.65		0.755	3	0.07		0.868	7	0.52	8
9	21.0	0.816	6 S	0.42		0.228	2	0.04		0.742	7	0.45	9
10		0.805	6	0.42		0.199	2	0.03		0.691	7	0.42	10
11		0.684	5	0.30		0.196	2	0.03		0.663	7	0.40	11
12		0.603	5	0.26		0.186	2	0.03		0.601	7	0.36	12
13		0.534	4	0.18		0.164	2	0.03	14.5	0.568	7 S	0.34	13
14		0.654	4	0.23		0.210	3	0.05		0.520	7 S	0.31	14
15		1.17	8	0.81		0.333	4	0.12		0.469	7	0.28	15
16	13.0	0.854	4 S	0.30		0.216	4	0.07		0.837	11	0.80	16
17		0.711	3	0.18		0.182	4	0.06		1.61	13	1.81	17
18		0.733	3	0.19	17.5	0.150	4 S	0.05		1.67	17 S	2.45	18
19		0.732	3	0.19	16.0	1.26	39 S	4.25		19.5	94 S	158	19
20	23.0	0.591	3 S	0.15		0.764	21	1.39		3.58	19	5.88	20
21		0.478	3	0.12		0.556	11	0.53	11.0	3.40	15 S	4.41	21
22		0.483	3	0.13		0.427	7	0.26	11.5	5.90	10 S	5.10	22
23		0.557	3	0.14		0.333	6	0.17		3.22	6	1.67	23
24		0.560	3	0.15		0.288	7	0.17		9.34	39 S	31.5	24
25		0.413	3	0.11		1.58	43	5.87		4.23	13	4.75	25
26		0.347	3	0.09	15.5	2.60	38 S	8.56		2.41	6	1.25	26
27		0.366	3	0.09		1.81	13	2.03		1.78	5	0.77	27
28		0.337	3	0.09		1.06	9	0.82	13.0	2.23	7 S	1.35	28
29		0.457	3	0.12		1.69	14	2.04		2.07	5	0.89	29
30	12.0	1.02	8 S	0.71		1.06	2	0.18		1.36	4	0.47	30
31		0.545	6	0.28	14.5	0.766	4 S	0.26					31
TOTAL		30.295		24.48		19.221		28.15		80.186		241.22	TOTAL
MEAN		0.977		0.79		0.620		0.91		2.67		8.04	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.29	4	0.45		0.567	5 S	0.24		2.79	6	1.45	1
2		8.72	25 S	18.8		0.537	5 S	0.23		1.71	5	0.74	2
3		21.2	40 S	73.3		0.478	5	0.21		1.35	5	0.58	3
4		25.3	37	80.9		0.487	7 S	0.29		1.77	6	0.92	4
5		6.75	28	16.3		0.485	7	0.29		2.53	5	1.09	5
6		3.54	27	8.26		0.478	5 S	0.21		1.62	5	0.70	6
7		2.83	26	6.36		0.457	5	0.20		3.36	9	2.61	7
8		2.28	26	5.12		0.438	6 S	0.23		2.30	5	0.99	8
9		1.85	26	4.16	4.5	0.427	4 S	0.15		1.56	4	0.54	9
10		1.86	25	4.02		0.432	3	0.11		3.71	12	3.85	10
11		1.63	26	3.66		0.432	3	0.11		1.91	7	1.16	11
12		1.46	25	3.15	4.5	0.408	4 S	0.14		3.71	12	3.85	12
13		1.26	25	2.72		0.399	4 S	0.14		3.89	10 S	3.36	13
14		1.18	25 S	2.55		0.529	9	0.41		2.24	7	1.35	14
15	8.0	2.25	31 S	6.03		0.511	10 S	0.44		1.47	7	0.89	15
16		1.86	8 S	1.29		0.484	5 S	0.21		1.35	7	0.82	16
17		2.59	8	1.79		0.445	5	0.19	2.5	2.11	12 S	2.19	17
18		1.54	7 S	0.93		0.413	5 S	0.18		2.97	9	2.31	18
19		1.17	4 S	0.40	3.0	0.381	3 S	0.10		1.57	8	1.09	19
20		0.998	3	0.26		0.375	6 S	0.19		8.63	31 S	23.1	20
21		0.906	5 S	0.39		0.403	3	0.10	3.0	9.01	11 S	8.56	21
22		0.865	5	0.37		0.387	2 S	0.07	3.0	6.90	12 S	7.15	22
23		0.827	5 S	0.36		0.375	3 S	0.10		4.40	6 S	2.28	23
24		0.763	4	0.26		3.72	26	8.36		2.55	5	1.10	24
25	6.0	0.704	4 S	0.24		3.06	8 S	2.12		1.94	6 S	1.01	25
26		0.669	9 S	0.52	2.0	1.32	4 S	0.46		3.19	7	1.93	26
27		0.608	8	0.42		2.88	10 S	2.49		3.10	4 S	1.07	27
28		0.587	7 S	0.36		1.68	4	0.58		1.87	3 S	0.48	28
29	5.5	0.578	6 S	0.30		1.27	6	0.66		3.46	8	2.39	29
30		0.537	5 S	0.23		7.19	29	18.0		3.38	6	1.75	30
31		0.560	4	0.19						2.08	6	1.08	31
TOTAL		99.162		244.09		31.448		37.21		94.43		82.39	TOTAL
MEAN		3.20		7.87		1.05		1.24		3.05		2.66	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	18	
MAXIMUM DAILY	94	ON SEP 19
MINIMUM DAILY	1	ON FEB 13

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	3.63	
MAXIMUM DAILY	158	ON SEP 19
MINIMUM DAILY	0.03	ON AUG 10

TOTAL SUSPENDED SEDIMENT LOAD 1 323.43 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 47 31 47 N
LONG 52 44 34 W
DRAINAGE AREA 52.7 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

NORTHWEST TERRITORIES

LIARD RIVER NEAR THE MOUTH - STATION NO. 10ED002

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		640 B				450 B				405 B			1
2		630 B				450 B				405 B			2
3		620 B				445 B				405 B			3
4		615 B				440 B				405 B			4
5		610 B				440 B				405 B			5
6		600 B				440 E				400 B			6
7		600 B				435 B				400 B			7
8		590 B				430 B				400 B			8
9		580 B				430 B				400 B			9
10		575 B				430 B				400 B			10
11		570 B				425 B				400 B			11
12		560 B				420 B				400 B			12
13		555 B				420 B				400 B			13
14		550 B				420 B				400 B			14
15		545 B				420 B				400 B			15
16		540 B				415 B				400 B			16
17		530 B				415 B				400 B			17
18		525 B				410 B				400 B			18
19		520 B				410 B				400 B			19
20		515 B				410 B				400 B			20
21		510 B				410 B				400 B			21
22		505 B				410 B				400 B			22
23		500 B				410 B				400 B			23
24		495 B				410 B				400 B			24
25		490 B				410 B				400 B			25
26		480 B				405 B				400 B			26
27		475 B				405 B				400 B			27
28		470 B				405 B				400 B			28
29		470 B								400 B			29
30		460 B								400 B			30
31		460 B								400 B			31
TOTAL		16 785				11 820				12 425			TOTAL
MEAN		541				422				401			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		400 B				420 B				5 970	849	438 000	1
2		400 B				440 B				6 170	890	474 000	2
3		400 B				460 B				6 570	922	523 000	3
4		400 B				480 B				6 990	939	567 000	4
5		400 B				500 B				7 300	947	597 000	5
6		395 B				540 B				7 350	922	586 000	6
7		395 B				590 B				7 050	846	515 000	7
8		395 B				680 B				6 740	741	432 000	8
9		395 B			1	000 B				6 370	651	358 000	9
10		395 B			1	500 B				6 060	569	298 000	10
11		395 B				2 000 B			12.0	6 090	516 S	272 000	11
12		395 B				2 500 E				6 500	549	308 000	12
13		395 B				3 500 E				7 320	656	415 000	13
14		390 B				5 000 E				8 090	783	547 000	14
15		390 B				6 530 A				8 550	905	669 000	15
16		390 B				7 000 E				8 900	966	743 000	16
17		390 B				7 570 A			13.0	8 910	929 S	715 000	17
18		390 B				8 400 E			12.0	8 550	844 S	623 000	18
19		390 B				9 100 A				7 820	716	484 000	19
20		390 B				11 000 E				7 030	594	361 000	20
21		390 B				12 900 A			14.0	6 540	496 S	280 000	21
22		390 B				12 800 A				6 540	484	273 000	22
23		390 B				11 400 E			14.0	6 660	508 S	292 000	23
24		390 B				9 780 A				6 560	470	266 000	24
25		390 B				8 480	1 180	865 000		6 250	423	228 000	25
26		390 B				7 450	1 120	721 000		5 740	400	198 000	26
27		390 B				6 680	1 040	600 000		5 170	376	168 000	27
28		400 B			9.0	6 060	923 S	483 000	15.0	4 780	354 S	146 000	28
29		400 B				5 660	806	394 000		4 610	339	135 000	29
30		410 B				5 550	752	361 000		4 540	326	128 000	30
31					10.0	5 760	796 S	396 000					31
TOTAL		11 830				161 730				201 720		12 039 000	TOTAL
MEAN		394				5 220				6 720		401 000	MEAN

NORTHWEST TERRITORIES

LIARD RIVER NEAR THE MOUTH - STATION NO. 10ED002

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		4 530	312	122 000		1 990	134	23 000		2 100	61	11 100	1
2		4 520	297	116 000		1 950	144	24 300		2 080	57	10 200	2
3		4 420	283	108 000		1 940	143	24 000		2 040	53	9 340	3
4		4 380	269	102 000		1 990	139	23 900		1 970	50	8 510	4
5	17.0	4 350	258 S	97 000		1 990	133	22 900		1 930	50	8 340	5
6		4 280	258	95 400	15.0	1 940	124 S	20 800		1 940	49	8 210	6
7		4 250	259	95 100		1 900	117	19 200	12.0	1 980	50 S	8 550	7
8		4 260	259	95 300		1 910	110	18 200		2 070	60	10 700	8
9	18.0	4 210	259 S	94 200		1 900	101	16 600		2 110	65	11 800	9
10		4 100	246	87 100		1 910	96	15 800		2 060	63	11 200	10
11		3 960	225	77 000		1 920	90	14 900		2 040	60	10 600	11
12		3 800	205	67 300		2 020	97	16 900		2 020	58	10 100	12
13		3 800	223	73 200		2 740	126	29 800		2 010	56	9 730	13
14		3 800	244	80 100		3 320	179	51 300		1 970	53	9 020	14
15		3 530	230	70 100		3 420	198	58 500		1 920	51	8 460	15
16		3 230	205	57 200		3 390	192	56 200		1 840	49	7 790	16
17	18.0	2 990	174 S	45 000		3 350	195	56 400		1 770	47	7 190	17
18		2 860	142	35 100		3 160	178	48 600		1 700	44	6 460	18
19		2 810	126	30 600		2 930	162	41 000		1 680	42	6 100	19
20		2 800	129	31 200		2 730	144	34 000		1 650	40	5 700	20
21		2 970	185	47 500		2 560	135	29 900	11.5	1 610	38 S	5 290	21
22		2 990	201	51 900		2 490	122	26 200		1 550	36	4 820	22
23		2 770	185	44 300	13.0	2 450	114 S	24 100		1 490	33	4 250	23
24		2 600	164	36 800		2 350	107	21 700		1 440	31	3 860	24
25	18.0	2 480	142 S	30 400		2 240	102	19 700		1 390	29	3 480	25
26		2 380	128	26 300		2 140	95	17 600		1 340	28	3 240	26
27	17.0	2 300	118 S	23 400		2 050	88	15 600		1 310	26	2 940	27
28		2 150	117	21 700		1 990	82	14 100		1 300	24	2 700	28
29		2 080	118	21 200		1 990	75	12 900	8.0	1 280	22 S	2 430	29
30		2 070	127	22 700		2 050	68 S	12 000		1 270	21	2 300	30
31		2 030	131	23 000		2 100	66	12 000					31
TOTAL		103 700		1 928 100		72 810		822 100		52 860		214 410	TOTAL
MEAN		3 350		62 200		2 350		26 500		1 760		7 150	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1 260	21	2 290		691 B				615 B			1
2		1 240	20	2 140		657 B				615 B			2
3		1 240	20	2 140		613 B				620 B			3
4		1 250	20	2 160		580 B				620 B			4
5		1 250	19	2 050		550 B				620 B			5
6	5.0	1 250	19 S	2 050		520 B				620 B			6
7		1 250	19	2 050		500 B				620 B			7
8		1 250	19	2 050		480 B				620 B			8
9		1 230	19	2 020		460 B				625 B			9
10		1 200	19	1 970		440 B				625 B			10
11		1 170	18	1 820		420 B				625 B			11
12		1 140	18	1 770		400 B				625 B			12
13		1 120	18	1 740		390 B				626 B			13
14		1 090	17	1 600		380 B				620 B			14
15		1 080	17	1 590		370 B				610 B			15
16		1 120	17	1 650		368 B				610 B			16
17		1 150	16	1 590		364 B				600 B			17
18		1 170	16	1 620		370 B				600 B			18
19		1 190	16	1 650		385 B				600 B			19
20		1 170	15	1 520		410 B				590 B			20
21		1 080	15	1 400		440 B				590 B			21
22		1 030	14	1 250		480 B				590 B			22
23		1 010	14	1 220		500 B				580 B			23
24		954	14	1 150		540 B				570 B			24
25		921	13	1 030		565 B				570 B			25
26		877	13	985		590 B				560 B			26
27		860	12	892		600 B				560 B			27
28		769 B	12	797		605 B				550 B			28
29		752 B	11	715		610 B				550 B			29
30		746 B	11	709		610 B				540 B			30
31		713 B	10	616						540 B			31
TOTAL		33 532		48 234		14 888				18 506			TOTAL
MEAN		1 080		1 560		496				597			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 61 44 50 N
LONG 121 13 25 W
DRAINAGE AREA 277 000 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

LIARD RIVER NEAR THE MOUTH - STATION NO. 10ED002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 31	14:15	5 760 H	10.0	802 K	12	18	30	42	57	78	91	97	99	100		BHW
JUN 17	08:50	8 910 H	13.0	937 K	12	17	28	42	57	76	92	98	100			BHW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

NORTHWEST TERRITORIES

MACKENZIE RIVER ABOVE ARCTIC RED RIVER - STATION NO. 10LA003

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		2 170 B				2 840 B				2 760 B			1
2		2 180 B				2 840 B				2 750 B			2
3		2 190 B				2 840 B				2 730 B			3
4		2 200 B				2 850 B				2 720 B			4
5		2 210 B				2 860 B				2 710 B			5
6		2 220 B				2 870 B				2 700 B			6
7		2 230 B				2 870 B				2 690 B			7
8		2 250 B				2 870 B				2 680 B			8
9		2 260 B				2 870 B				2 660 B			9
10		2 280 B				2 870 B				2 650 B			10
11		2 290 B				2 870 B				2 630 B			11
12		2 300 B				2 870 B				2 610 B			12
13		2 340 B				2 870 B				2 600 B			13
14		2 370 B				2 870 B				2 590 B			14
15		2 400 B				2 870 B				2 570 B			15
16		2 440 B				2 860 B				2 550 B			16
17		2 470 B				2 850 B				2 530 B			17
18		2 500 B				2 850 B				2 520 B			18
19		2 530 B				2 840 B				2 510 B			19
20		2 570 B				2 840 B				2 500 B			20
21		2 600 B				2 830 B				2 480 B			21
22		2 630 B				2 820 B				2 460 B			22
23		2 670 B				2 810 B				2 440 B			23
24		2 700 B				2 810 B				2 430 B			24
25		2 720 B				2 800 B				2 410 B			25
26		2 750 B				2 800 B				2 400 B			26
27		2 780 B				2 790 B				2 380 B			27
28		2 790 B				2 780 B				2 370 B			28
29		2 800 B								2 350 B			29
30		2 820 B								2 330 B			30
31		2 830 B								2 330 B			31
TOTAL		76 490				79 610				79 030			TOTAL
MEAN		2 470				2 840				2 550			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		2 310 B				2 680 B				25 000 B	382 E	825 000	1
2		2 300 B				2 720 B				27 300 B	457 E	1 080 000	2
3		2 300 B				2 800 B				28 500 B	516 E	1 270 000	3
4		2 290 B				2 870 B				28 800 B	552 E	1 370 000	4
5		2 280 B				2 940 B				28 600 E	527 E	1 300 000	5
6		2 280 B				3 030 B			10.0	28 200 A	482 S	1 170 000	6
7		2 270 B				3 130 B				27 300	444	1 050 000	7
8		2 270 B				3 240 B				26 200	421	953 000	8
9		2 270 B				3 360 B				25 600	399	883 000	9
10		2 270 B				3 490 B			10.0	25 000	384 S	829 000	10
11		2 270 B				3 640 B				24 200	354	740 000	11
12		2 280 B				3 800 B			12.0	23 300	314 S	632 000	12
13		2 280 B				4 000 B				22 400	287	555 000	13
14		2 280 B				4 020 B			12.0	21 900	266 S	503 000	14
15		2 290 B				4 240 B				22 000	268	509 000	15
16		2 300 B				4 720 B			12.0	22 500	282 S	548 000	16
17		2 300 B				5 050 B				23 100	320	639 000	17
18		2 310 B				5 420 B			12.0	23 900	395 S	816 000	18
19		2 320 B				5 840 B				24 900	486	1 050 000	19
20		2 330 B				6 380 B			12.0	25 700	574 S	1 270 000	20
21		2 340 B				6 960 B				25 800	637	1 420 000	21
22		2 370 B				7 630 B			12.0	25 800	669 S	1 490 000	22
23		2 390 B				8 400 B				25 500	695	1 530 000	23
24		2 410 B				9 400 B			13.0	25 000	723 S	1 560 000	24
25		2 440 B				10 600 B				24 200	640	1 340 000	25
26		2 480 B				12 000 B			15.0	23 300	419 S	843 000	26
27		2 500 B				13 800 B				22 400	356	689 000	27
28		2 530 B				15 800 B			16.0	21 500	354 S	658 000	28
29		2 590 B				18 200 B				20 800	325	584 000	29
30		2 620 B				20 400 B			16.0	20 200	269 S	469 000	30
31						22 800 B							31
TOTAL		70 470				223 360				738 900		28 575 000	TOTAL
MEAN		2 350				7 210				24 600		953 000	MEAN

NORTHWEST TERRITORIES

MACKENZIE RIVER ABOVE ARCTIC RED RIVER - STATION NO. 10LA003

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		19 500	247	416 000						11 100	83	79 600	1
2	17.0	18 800	231 S	375 000	16.0	10 200 E	86 S	75 800		10 800	81	75 600	2
3		18 100	215	336 000		10 400 E	81	72 800		10 500	78	70 800	3
4	18.0	17 600	198 S	301 000	16.0	10 500 E	81 S	73 500		10 300	73	65 000	4
5		17 100 A	179	264 000		10 700 E	83	76 700		10 200	69	60 800	5
6	19.0	16 500 E	158 S		15.0	10 900 E	87 S	81 900					
7		15 900 E	146	225 000		11 000 E	92	87 400		10 100	64	55 800	6
8	19.0	15 700 E	142 S	201 000	15.0	11 100 E	96 S	92 100	11.5	10 200	60 S	52 900	7
9		15 300 E	133	193 000		11 400 E	97	95 500		10 300	62	55 200	8
10	19.0	14 900 E	124 S	176 000	15.0	11 800 A	96 S	97 900		10 300	76	67 600	9
11		14 600 E	114	160 000		11 600	95	95 200		10 100	70	61 100	10
12	19.0	14 200 E	102 S	144 000	15.0	11 500	95 S	94 400		10 100	57	49 700	11
13		13 800 E	102	125 000		11 400	89	87 700		10 100	57	49 700	12
14	19.0	13 600 E	106 S	122 000	15.0	11 100	83 S	79 600		10 300	62	55 200	13
15		13 300 E	107	125 000		10 900	85	80 000	10.0	11 000	70 S	66 500	14
16	19.0	13 200 E	105 S	123 000	15.0	12 200	138 S	145 000		11 600	133	133 000	15
17		13 000 E	104	120 000		15 700	288	391 000					
18	18.0	12 700 E	125 S	117 000	14.0	18 600	513 S	824 000		11 800	275	280 000	16
19		12 100 E	204	137 000	13.0	19 300	997 S	1 660 000		11 600	343	344 000	17
20	17.0	12 000 E	309 S	213 000	12.0	18 500	1 390 S	2 220 000		11 400	338	333 000	18
21		12 000 E	283	320 000	12.0	17 200	1 570	2 330 000		11 000	309	294 000	19
22	17.0	12 300 E	223 S	293 000	12.0	15 900	1 270 S	1 740 000	9.0	10 800	274 S	256 000	20
23		13 200 E	208	237 000		15 000	972	1 260 000					
24		13 300 E	207	237 000	11.0	14 300	735 S	908 000		10 600	259	237 000	21
25		12 400 E	216	238 000	12.0	13 800	445 S	531 000		10 400	230	207 000	22
				231 000		13 500	253	295 000		10 200	199	175 000	23
26	17.0	11 400 E	240 S	236 000		13 200	130	148 000		9 980	169	146 000	24
27		10 500 E	362	328 000		12 800	94	104 000		9 820	138	117 000	25
28	17.0	10 100 E	537 S	469 000		12 500	91	98 300		9 670	108	90 200	26
29		9 850 E	445	379 000		12 200	89	93 800	8.0	9 560	81	66 900	27
30	17.0	9 890 E	247 S	211 000		11 800	87	88 700		9 530	60 S	49 400	28
31		10 000 E	138	119 000		11 400	85	83 700		9 410	53	43 100	29
										9 340	45	36 300	30
													31
TOTAL		426 840		7 171 000		402 400		14 111 000		312 110		3 673 400	TOTAL
MEAN		13 800		231 000		13 000		455 000		10 400		122 000	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		9 240	38	30 300		6 230 B				2 800 B			
2		9 130	35	27 600		6 010 B				2 790 B			1
3		9 150	48	37 900		5 810 B				2 810 B			2
4		9 320	54	43 500		5 610 B				2 870 B			3
5	4.5	9 420	53 S	43 100		5 410 B				2 930 B			4
6		9 350	49	39 600		5 210 B							5
7		9 230	44	35 100		5 010 B				3 080 B			
8		9 060	38	29 700		4 830 B				3 360 B			6
9		8 960	34	26 300		4 680 B				3 540 B			7
10		8 930	32	24 700		4 510 B				3 600 B			8
11		8 800	30	22 800		4 370 B				3 640 B			9
12		8 790	28	21 300		4 220 B				3 670 B			10
13		8 800	26	19 800		4 070 B				3 690 B			11
14		8 920	32	24 700		3 970 B				3 710 B			12
15	0.1	8 890	44 S	33 800		3 840 B				3 730 B			13
16		8 780	44	33 400		3 730 B				3 770 B			14
17		8 710	43	32 400		3 610 B							15
18		8 720	42	31 600		3 510 B				3 760 B			
19		8 670	41	30 700		3 420 B				3 750 B			16
20		8 460 B	40	29 200		3 340 B				3 740 B			17
21		8 280 B	39	27 900		3 250 B				3 730 B			18
22		8 080 B	38	26 500		3 170 B				3 720 B			19
23		7 920 B	37	25 300		3 080 B				3 700 B			20
24		7 730 B	36	24 000		3 000 B				3 690 B			21
25		7 560 B	35	22 900		2 960 B				3 670 B			22
26		7 390 B	34	21 700		2 920 B				3 650 B			23
27		7 200 B	33	20 500		2 880 B				3 630 B			24
28		7 000 B	32	19 400		2 840 B							25
29		6 810 B	31	18 200		2 810 B				3 610 B			
30		6 600 B	30	17 100		2 800 B				3 600 B			26
31		6 420 B	30	16 600						3 590 B			27
										3 570 B			28
										3 550 B			29
										3 520 B			30
													31
TOTAL		260 320		857 600		121 100				108 870			TOTAL
MEAN		8 400		27 700		4 040				3 500			MEAN

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 67 21 30 N
LONG 133 33 30 W
DRAINAGE AREA 1 660 000 km^2
REGULATED FLOW SINCE 1968

MACKENZIE RIVER ABOVE ARCTIC RED RIVER - STATION NO. 10LA003

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JUN 06	21:45	28 200 M	10.0	461 K	24	31	52	74	88	98	100					BNW
JUN 20	19:45	25 700 M	12.0	605 K	26	32	50	71	85	97	99	100				BNW
JUN 24	21:30	25 000 M	13.0	734 K	34	41	59	80	92	98	99	100				BNW
JUL 28	20:26	10 100 M	17.0	575 K	46	48	70	92	97	99	100					BNW
AUG 18	18:32	19 300 M	13.0	1 180 K	30	37	57	80	96	99	100					BNW
AUG 23	14:50	15 100	11.0	718 R	32	38	56	73	87	94	97	99	100			BNW

M - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	0.5	13.4 B	3 S	3.47		6.80 B	4	2.35		5.78 B	3	1.48	1
2		12.1 B	3	3.14		10.0 B	4	3.46		5.47 B	3	1.42	2
3		11.8 B	3	3.06		21.0 B	4	7.26		5.30 B	3	1.37	3
4		11.6	3	3.01		33.5 B	12	34.7		5.06 B	3	1.31	4
5	0.5	32.9	49 S	139		61.5 B	10	53.1		7.20 B	5	3.11	5
6	0.5	47.4	16 S	65.5		49.5 B	7	29.9		11.0 B	31	29.5	6
7	0.5	42.5	8 S	29.4		39.0 B	7	23.6		17.0 B	7	10.3	7
8		34.6	8	23.9		31.5 B	7	19.1		26.5 B	4	9.16	8
9		25.9	8	17.9		27.0 B	8	18.7		37.8 B	4	13.1	9
10		19.4 B	7	11.7		23.0 B	8	15.9		33.7 B	4	11.6	10
11	0.5	16.8 B	9 S	12.8		20.2 B	8	14.0		28.8 B	5	12.4	11
12		14.5 B	6	7.52		18.0 B	7	10.9		33.8 B	11	32.1	12
13		13.2 B	6	6.84		15.8 B	6	8.19		41.2 B	26	92.6	13
14		12.0 B	6	6.22		14.4 B	6	7.46	1.5	34.0 B	15 S	44.1	14
15		11.0 B	6	5.70		13.2 B	6	6.84	1.0	28.9 B	9 S	22.5	15
16		10.2 B	6	5.29		12.2 B	6	6.32		25.2 B	8	17.4	16
17		9.50 B	6	4.92		11.3 B	5	4.88		22.4 B	7	13.5	17
18		8.95 B	6	4.64		10.5 B	5	4.54		20.3 B	6	10.5	18
19		8.46 B	6	4.39		9.80 B	5	4.23		18.3 B	5	7.91	19
20		8.05 B	6	4.17		9.15 B	5	3.95		17.1 B	5	7.39	20
21		7.66 B	6	3.97		8.62 B	5	3.72	3.0	15.8 B	4 S	5.46	21
22		7.35 B	6	3.81		8.15 B	5	3.52		14.8 B	3	3.84	22
23		7.08 B	6	3.67		7.72 B	4	2.67		13.8 B	3	3.58	23
24		6.80 B	5	2.94		7.33 B	4	2.53		13.2 B	3	3.42	24
25		6.55 B	5	2.83		7.02 B	4	2.43		14.8 B	3	3.84	25
26		6.34 B	5	2.74		6.67 B	3	1.73		16.9 B	19	27.7	26
27		6.13 B	5	2.65		6.42 B	3	1.66		21.8 B	19	35.8	27
28		5.95 B	5	2.57		6.15 B	3	1.59		19.1 B	11	18.2	28
29		5.85 B	4	2.02					1.5	18.0 B	8 S	12.4	29
30		5.70 B	4	1.97						17.6 B	6	9.12	30
31		5.55 B	4	1.92						17.2 B	5	7.43	31
TOTAL		434.82		393.66		495.43		299.23		607.73		473.54	TOTAL
MEAN		14.0		12.7		17.7		10.7		19.6		15.3	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		24.3	35	73.5		50.2	9	39.0		6.16	3	1.60	1
2	4.0	32.3	13 S	36.3		36.9	7	22.3		5.88	3	1.52	2
3		29.4	8	20.3	11.0	28.3	5 S	12.2		6.08	3	1.58	3
4	5.0	24.9	7 S	15.1		23.4	4	8.09		6.50	3	1.68	4
5		27.0	11	25.7		23.0	6	11.9		6.05	3	1.57	5
6		25.6	6	13.3		22.0	8	15.2	15.0	5.77	3 S	1.50	6
7	1.0	23.1	4 S	7.98		18.8	8	13.0		5.43	5	2.35	7
8		21.9	4	7.57		16.0	7	9.68		4.97	8	3.44	8
9		19.8	4	6.84	13.0	14.2	6 S	7.36	17.0	4.83	10 S	4.17	9
10		18.1	4	6.26		12.7	6	6.58		4.77	9	3.71	10
11	2.5	17.4	6 S	9.02		11.6	6	6.01		4.65	8	3.21	11
12		21.3	11	20.2		12.0	7	7.26		4.38	6	2.27	12
13		19.8	7	12.0		11.7	3	3.03	15.0	4.18	4 S	1.44	13
14	6.0	24.7	23 S	49.1		11.5	5	4.97		4.32	4	1.49	14
15		27.3	10	23.6		12.2	6	6.32		4.72	3	1.22	15
16		24.9	6	12.9	8.5	11.4	4	3.94		4.67	2	0.81	16
17		23.9	5	10.3		10.4	4	3.59	14.0	4.66	2 S	0.81	17
18		30.1	19	49.4		9.77	4	3.38		4.68	2	0.81	18
19	8.0	34.6	10 S	29.9		8.98	3	2.33		4.71	2	0.81	19
20		31.2	7	18.9		8.57	3	2.22		8.20	11	7.79	20
21		26.2	6	13.6		8.52	3	2.21	16.0	10.9	9 S	8.48	21
22		24.4	5	10.5		7.89	3	2.05		8.24	4	2.85	22
23	9.0	21.6	4 S	7.46		8.12	3	2.10		6.82	5	2.95	23
24		18.5	3	4.80		7.65	2	1.32	16.0	8.25	9 S	6.42	24
25		15.9	4	5.50		8.96	6	4.64		7.51	5	3.24	25
26		14.1	4	4.87	12.0	11.5	6 S	5.96		6.26	5	2.70	26
27		13.2	4	4.56		9.97	4	3.45		5.53	5	2.39	27
28	9.5	26.3	89 S	202		8.57	4	2.96	16.5	4.90	5 S	2.12	28
29	5.0	73.1	33 S	208		7.34	4	2.54		4.68	5	2.02	29
30	5.0	72.6	12 S	75.3		6.70	4	2.32	17.0	11.8	27 S	27.5	30
31						6.32	4	2.18					31
TOTAL		807.5		984.76		445.16		220.09		180.50		104.45	TOTAL
MEAN		26.9		32.8		14.4		7.10		6.02		3.48	MEAN

NOVA SCOTIA

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		15.5	9	12.1	19.0	2.77	3 S	0.72		2.55	2	0.44	1
2		11.2	5	4.84		2.55	2	0.44		2.66	2	0.46	2
3		8.02	4	2.77		2.40	2	0.41	16.0	3.00	4 S	1.04	3
4	18.0	6.37	3 S	1.65		2.24	1	0.19		2.69	2	0.46	4
5		5.37	3	1.39		2.17	1	0.19	18.0	1.94	2 S	0.34	5
6		4.70	3	1.22	16.0	2.20	1 S	0.19		1.73	2	0.30	6
7		4.28	3	1.11		2.18	1	0.19		1.61	2	0.28	7
8		3.90	3	1.01		2.05	1	0.18		1.55	2	0.27	8
9		3.76	3	0.97		2.06	2	0.36		1.54	3	0.40	9
10		3.53	4	1.22		2.98	4	1.03		1.49	3	0.39	10
11		3.31	5	1.43	18.0	3.80	5 S	1.64		1.46	3	0.38	11
12	21.0	3.28	6 S	1.70		3.33	3	0.86	17.0	1.36	3 S	0.35	12
13		3.13	5	1.35		3.37	3	0.87		1.36	3	0.35	13
14		3.16	5	1.37	17.5	3.57	3 S	0.93		1.34	3	0.35	14
15		3.08	4	1.06		3.25	3	0.84		1.33	3	0.34	15
16		2.96	4	1.02		2.68	3	0.69		1.24	3	0.32	16
17		2.90	4	1.00		2.44	2	0.62		1.28	3	0.33	17
18	21.0	2.87	3 S	0.74		2.26	2	0.59		1.21	2	0.21	18
19		2.87	3	0.74		2.11	1	0.18	16.0	1.21	2 S	0.21	19
20		2.93	4	1.01		2.03	1	0.18		1.15	2	0.20	20
21		4.60	4	1.59		1.89	1	0.16		2.10	4	0.73	21
22		4.91	3	1.27		1.72	1	0.15		2.46	4	0.85	22
23		4.57	4	1.58		1.61	1	0.14		3.60	4	1.24	23
24		4.09	3	1.06		1.70	1	0.15	14.0	3.53	3 S	0.91	24
25		3.61	4	1.25	15.5	2.00	1 S	0.17		2.90	3	0.75	25
26	20.0	3.21	4 S	1.11		1.92	1	0.17	13.0	2.60	3 S	0.67	26
27		3.04	4	1.05		1.98	1	0.17		2.37	3	0.61	27
28		2.76	4	0.95		2.76	2	0.48		2.27	3	0.59	28
29		5.62	5	2.43	16.0	2.56	2 S	0.44		2.27	3	0.59	29
30		5.22	3	1.35		2.53	2	0.44		1.97	2	0.34	30
31		3.64	3	0.94		2.52	2	0.44					31
TOTAL		142.39		54.28		75.63		13.81		59.77		14.70	TOTAL
MEAN		4.59		1.75		2.44		0.45		1.99		0.49	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.88	2	0.32		1.59	3	0.41	1.0	11.1	20 S	19.2	1
2		1.92	2	0.33		1.63	2	0.28		9.75	12	10.1	2
3	12.0	1.92	2 S	0.33		2.15	2	0.37		9.33	10	8.06	3
4		1.78	2	0.31	12.0	2.23	2 S	0.39		7.87	9	6.12	4
5		1.79	2	0.31		2.36	2	0.41	6.0	7.54	8 S	5.21	5
6		1.76	3	0.46		4.61	8	3.19		6.99	8	4.83	6
7		1.66	3	0.43	9.0	3.71	7 S	2.24		11.1	17	16.3	7
8		1.53	3	0.40		2.99	6	1.55		11.6	11	11.0	8
9		1.63	3	0.42		2.68	6	1.39		9.50 B	10	8.21	9
10		1.59	3	0.41		2.46	5	1.06		7.76 B	9	6.03	10
11		1.61	3	0.42		2.32	5	1.00		6.60 B	9	5.13	11
12		1.58	4	0.55		2.21	4	0.76		6.40 B	9	4.98	12
13	8.0	1.58	4 S	0.55		2.20	4	0.76		8.00 B	11	7.60	13
14		1.71	4	0.59	9.0	4.02	9 S	3.13		11.0 B	16	15.2	14
15		2.53	4	0.87	6.0	4.05	6 S	2.10	0.5	12.2	6 S	6.32	15
16		2.47	4	0.85		5.51	8	3.81		12.0	5	5.18	16
17	8.0	2.24	4 S	0.77		5.24	6	1.81	2.0	30.1	67 S	174	17
18		2.11	4	0.73		4.36	3	1.13		28.6	25	61.8	18
19		2.03	4	0.70		3.77	3	0.98	0.5	23.5	12 S	24.4	19
20		1.91	3	0.50		3.38	3	0.88		16.9	9	13.1	20
21		1.86	3	0.48	4.0	3.12	2 S	0.54		13.6	8	9.40	21
22		1.80	3	0.47		3.04	2	0.53		12.1	8	8.36	22
23		1.76	2	0.30		2.93	2	0.51		9.71 B	7	5.87	23
24	8.0	1.71	2 S	0.30		2.86	2	0.49	0.1	8.20 B	6 S	4.25	24
25		1.69	2	0.29		3.21	2	0.55		8.18 B	5	3.53	25
26		1.67	2	0.29		3.21	2	0.55		18.6	20	32.1	26
27		1.64	3	0.43		3.81	3	0.99	0.5	28.7	26 S	64.5	27
28		1.62	3	0.42		3.46	3	0.90		24.0	13	27.0	28
29		1.61	3	0.42		4.18	13	4.69		24.6	18	38.3	29
30		1.60	3	0.41	3.0	12.7	56 S	61.4		23.4	15	30.3	30
31	8.0	1.61	3 S	0.42						18.8	12	19.5	31
TOTAL		55.80		14.48		105.99		98.80		437.73		655.88	TOTAL
MEAN		1.80		0.47		3.53		3.29		14.1		21.2	MEAN

SUMMARY FOR THE YEAR 1982

TOTAL SUSPENDED SEDIMENT LOAD 3 327.68 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	10	
MAXIMUM DAILY	89	ON APR 28
MINIMUM DAILY	1	ON AUG 04

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	9.12	
MAXIMUM DAILY	208	ON APR 29
MINIMUM DAILY	0.14	ON AUG 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 44 56 59 N
LONG 65 01 47 W
DRAINAGE AREA 546 km^2
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.860 B	1	0.07		2.50 B	1	0.22	0.6	0.620 B	4 S	0.21	1
2		0.810 B	1	0.07		4.60 B	1	0.40		0.560 B	3	0.15	2
3		0.770 B	1	0.07	0.1	3.85 B	1 S	0.33		0.520 B	3	0.13	3
4		0.740 B	2	0.13		6.00 B	4	2.07		0.480 B	3	0.12	4
5		14.5	2	2.51		10.0 B	8	6.91		0.600 B	2	0.10	5
6	0.1	7.00 B	5 S	3.02		5.40 B	3	1.40		0.700 B	2	0.12	6
7		4.50 B	2	0.78		3.50 B	1	0.30		1.00 B	1	0.09	7
8		3.20 B	2	0.55		2.60 B	1	0.22		2.70 B	1	0.23	8
9		2.40 B	2	0.41		2.00 B	1	0.17		6.40 B	3	1.66	9
10		1.80 B	1	0.16		1.65 B	1	0.14		4.10 B	2	0.71	10
11		1.45 B	1	0.13		1.35 B	1	0.12		2.70 B	2	0.47	11
12	0.1	1.17 B	1 S	0.10		1.15 B	1	0.10		3.40 B	2	0.59	12
13		0.970 B	1	0.08		1.00 B	1	0.09		5.20 B	2	0.90	13
14		0.820 B	1	0.07		0.880 B	1	0.08		5.80 B	2	1.00	14
15		1.10 B	1	0.10		0.790 B	1	0.07		3.70 B	2	0.64	15
16		3.00 B	1	0.26	0.1	0.720 B	1 S	0.06	0.1	3.00 B	2 S	0.52	16
17		2.30 B	1	0.20		0.660 B	1	0.06		2.40 B	2	0.41	17
18		1.90 B	1	0.16		0.610 B	1	0.05		2.00 B	2	0.35	18
19		1.62 B	1	0.14		0.570 B	1	0.05		1.70 B	3	0.44	19
20	0.1	1.43 B	1 S	0.12		0.540 B	1	0.05		1.50 B	3	0.39	20
21		1.27 B	1	0.11		1.00 B	1	0.09		1.34 B	3	0.35	21
22		1.14 B	1	0.10		1.85 B	2	0.32		1.18 B	3	0.31	22
23		1.04 B	1	0.09		1.55 B	2	0.27		1.08 B	3	0.28	23
24		1.10 B	1	0.10		1.32 B	2	0.23		1.00 B	3	0.26	24
25		2.60 B	1	0.22		1.13 B	3	0.29		0.900 B	3	0.23	25
26		2.20 B	1	0.19		0.970 B	3	0.25		2.00 B	4	0.69	26
27	0.1	1.90 B	1 S	0.16		0.860 B	3	0.22		3.90 E	4	1.35	27
28		1.65 B	1	0.14		0.770 B	4	0.27		3.00 E	4	1.04	28
29		1.47 B	1	0.13					0.6	2.50 E	4 S	0.86	29
30		1.32 B	1	0.11						2.20 E	4	0.76	30
31		1.25 B	1	0.11						1.90 E	3	0.49	31
TOTAL		69.280		10.59		59.820		14.83		70.080		15.85	TOTAL
MEAN		2.23		0.34		2.14		0.53		2.26		0.51	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		5.50 E	3	1.43		6.47	6	3.35		0.691	1	0.06	1
2		4.00 E	2	0.69		4.58	5	1.98		0.677	1	0.06	2
3		3.10 E	2	0.54	8.9	3.25	4 S	1.12		0.801	1	0.07	3
4		3.80 E	1	0.33		2.65	4	0.92		0.646	1	0.06	4
5	2.2	4.50 E	1 S	0.39		2.26	3	0.59		0.528	1	0.05	5
6		3.40 E	1	0.29		1.95	3	0.51		0.499	1	0.04	6
7		3.00 E	1	0.26		1.66	3	0.43	12.8	0.438	1 S	0.04	7
8		2.60 E	1	0.22		1.47	3	0.38		0.427	1	0.04	8
9		2.30 E	1	0.20		1.26	2	0.22		0.401	1	0.03	9
10		2.12 E	1	0.18		1.15	2	0.20		0.342	1	0.03	10
11		1.97 E	1	0.17	8.3	1.13	2 S	0.20		0.325	1	0.03	11
12		1.84 E	1	0.16		1.18	2	0.20		0.314	1	0.03	12
13	2.2	1.80 E	1 S	0.16		1.20	2	0.21		0.287	1	0.02	13
14		8.40 E	1	0.73		1.47	6	0.76	13.3	0.314	1 S	0.03	14
15		5.80 E	1	0.50		2.21	7	1.34		0.527	3	0.14	15
16		3.90 E	1	0.34		1.83	7	1.11		0.555	2	0.10	16
17		5.70 E	1	0.49		1.50	7	0.91		0.896	5	0.39	17
18		8.90 E	4	3.08		1.27	7	0.77		0.674	3	0.17	18
19		7.40 E	4	2.56	11.1	1.03	7 S	0.62		0.517	2	0.09	19
20	5.6	6.30 E	2 S	1.09		1.35	7	0.82		0.883	3	0.23	20
21	6.7	5.31 A	2 S	0.92		1.77	6	0.92	18.9	1.12	4 S	0.39	21
22		6.98	4	2.41		1.33	6	0.69		0.694	1	0.06	22
23		4.45	2	0.77		1.07	6	0.55		0.796	2	0.14	23
24		3.21	2	0.55		0.932	6	0.48		2.36	6	1.22	24
25		2.68	1	0.23	11.7	1.59	7 S	0.96		1.49	2	0.26	25
26	9.4	2.31	1 S	0.20		2.33	5	1.01		0.948	1	0.08	26
27		2.72	1	0.24		1.44	1	0.12		0.725	1	0.06	27
28		16.2	12	16.8		1.12	1	0.10	15.6	0.565	1 S	0.05	28
29		17.6	19	28.9		0.951	1	0.08		0.663	2	0.11	29
30		7.53	7	4.55		0.800	1	0.07		9.74	13	10.9	30
31					17.8	0.728	1 S	0.06					31
TOTAL		155.32		69.38		54.931		21.68		29.843		14.98	TOTAL
MEAN		5.18		2.31		1.77		0.70		0.995		0.50	MEAN

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		5.58	4	1.91		1.40	1	0.12		0.264	1	0.02	1
2		2.24	2	0.39		1.11	1	0.10		0.538	2	0.09	2
3		1.49	4	0.51	17.2	0.834	1 S	0.07		1.65	4	0.57	3
4		1.05	6	0.58		0.660	1	0.06		1.35	1	0.12	4
5	12.2	0.821	7 S	0.50		0.589	1	0.05		0.873	1	0.08	5
6		0.643	6	0.33		0.688	1	0.06		0.636	1	0.05	6
7		0.571	5	0.25		0.634	1	0.05	14.4	0.491	1 S	0.04	7
8		0.487	4	0.17		0.527	1	0.05		0.823	1	0.04	8
9		0.433	3	0.11		0.538	1	0.05		0.382	1	0.03	9
10		0.376	2	0.06	18.3	1.67	4 S	0.58		0.348	1	0.03	10
11		0.341	2	0.06		2.16	2	0.37		0.314	1	0.03	11
12	18.3	0.310	1 S	0.03		1.20	1	0.10		0.297	1	0.03	12
13		0.289	1	0.02		0.962	1	0.08	16.1	0.286	1 S	0.02	13
14		0.267	1	0.02		1.19	1	0.10		0.268	1	0.02	14
15		0.264	1	0.02		1.01	1	0.09		0.259	1	0.02	15
16		0.245	1	0.02	16.7	0.731	1 S	0.06		0.265	1	0.02	16
17		0.212	1	0.02		0.551	1	0.05		0.254	1	0.02	17
18		0.182	1	0.02		0.456	1	0.04		0.249	1	0.02	18
19	22.8	0.170	1 S	0.01		0.417	1	0.04		0.246	1	0.02	19
20		0.716	2	0.12		0.361	1	0.03		0.231	1	0.02	20
21		6.90	13	7.75		0.334	1	0.03	11.1	0.322	1 S	0.03	21
22		8.22	5	3.55		0.307	1	0.03		0.804	2	0.14	22
23		5.02	1	0.43		0.274	1	0.02		2.81	5	1.21	23
24		2.48	1	0.21		0.311	2	0.05		2.02	1	0.17	24
25		1.55	1	0.13		0.853	4	0.29		1.29	1	0.11	25
26	22.2	1.09	1 S	0.09		0.774	1	0.07		0.983	1	0.08	26
27		0.831	1	0.07		0.660	1	0.06	13.3	0.712	1 S	0.06	27
28		0.654	1	0.06		0.473	1	0.04		0.743	1	0.06	28
29		6.39	9	4.97		0.383	1	0.03		0.739	1	0.06	29
30		5.11	3	1.32		0.318	1	0.03		0.631	1	0.05	30
31		2.14	1	0.18	12.8	0.294	1 S	0.03					31
TOTAL		57.032		23.87		22.669		2.83		20.624		3.26	TOTAL
MEAN		1.84		0.77		0.731		0.09		0.687		0.11	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.516	1	0.04		0.361	1	0.03		2.82	1	0.21	1
2		1.48	4	0.51	7.2	0.370	1 S	0.03		3.13	1	0.27	2
3		1.41	1	0.12		1.01	4	0.35		2.64	1	0.23	3
4	10.6	1.07	1 S	0.09		1.05	1	0.09		2.60	1	0.22	4
5		0.841	1	0.07		0.909	1	0.08		2.68	1	0.23	5
6		0.659	1	0.06		4.47	8	3.09	3.3	2.45	2 S	0.42	6
7		0.585	1	0.05		2.64	1	0.23		4.12	3	1.07	7
8		0.503	1	0.04		1.71	1	0.15		2.80	1	0.24	8
9		0.479	1	0.04	3.3	1.30	1 S	0.11		2.02	1	0.17	9
10		0.453	1	0.04		1.07	1	0.09		1.85 B	1	0.16	10
11		0.429	1	0.04		0.906	1	0.08		1.65 B	1	0.14	11
12	6.1	0.392	1 S	0.03		0.850	1	0.07		1.53 B	1	0.13	12
13		0.343	1	0.03		0.781	1	0.07	0.1	1.42 B	2 S	0.25	13
14		0.408	1	0.04		1.65	3	0.43		1.32 B	1	0.11	14
15		1.15	4	0.40		1.47	1	0.13		1.22 B	1	0.11	15
16		1.12	1	0.10	3.3	2.19	3 S	0.57		1.15 B	1	0.10	16
17		0.832	1	0.07		1.90	1	0.16		9.73	5	4.20	17
18		0.685	1	0.06		1.47	1	0.13		5.89	1	0.51	18
19		0.603	1	0.05		1.20	1	0.10		4.08	1	0.35	19
20		0.515	1	0.04		1.02	1	0.09		2.64	1	0.23	20
21		0.482	1	0.04		0.912	1	0.08		2.02	1	0.17	21
22		0.492	1	0.04		0.883	1	0.08		1.74	1	0.15	22
23		0.486	1	0.04		0.881	1	0.08		1.67 B	1	0.14	23
24		0.420	1	0.04		0.938	1	0.08		1.50 B	1	0.13	24
25		0.431	1	0.04		1.03	1	0.09		2.47	1	0.21	25
26	7.2	0.420	1 S	0.04		0.937	1	0.08		4.73	2	0.82	26
27		0.432	1	0.04		1.40	1	0.12		5.89	1	0.51	27
28		0.408	1	0.04		1.24	1	0.11		3.69	1	0.32	28
29		0.393	1	0.03		1.15	1	0.10		4.76	1	0.41	29
30		0.389	1	0.03	2.8	3.29	2 S	0.57	4.4	3.87	1 S	0.33	30
31		0.383	1	0.03						2.46	1	0.21	31
TOTAL		19.209		2.33		40.988		7.47		92.09		12.75	TOTAL
MEAN		0.619		0.08		1.37		0.25		2.97		0.41	MEAN

SUMMARY FOR THE YEAR 1982

TOTAL SUSPENDED SEDIMENT LOAD 199.82 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	3	
MAXIMUM DAILY	19	ON APR 29
MINIMUM DAILY	1	ON JAN 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	0.55	
MAXIMUM DAILY	28.9	ON APR 29
MINIMUM DAILY	0.01	ON JUL 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 35 10 N
LONG 64 27 05 W
DRAINAGE AREA 63.2 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

MIDDLE RIVER AT ROCKLIN - STATION NO. 01DP004

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		1.50 B				3.50 B				0.510 B			1
2		1.45 B				6.80 B				0.460 B			2
3		1.38 B				5.60 B				0.410 B			3
4		1.32 B				8.50 B				0.380 B			4
5		22.0				14.8 B				0.510 B			5
6		15.0				7.00 B				0.900 B			6
7		8.66				4.30 B				1.50 B			7
8		5.93				3.20 B				3.50 B			8
9		3.83				2.55 B				9.40 B			9
10		2.60 B				2.13 B				6.10 B			10
11		2.05 B				1.76 B				3.90 B			11
12		1.75 B				1.54 B				5.00 B			12
13		1.50 B				1.37 B				7.70 B			13
14		1.30 B				1.23 B				8.50 B			14
15		2.00 B				1.11 B				9.00 B			15
16		4.60 B				1.02 B				5.10 B			16
17		3.30 B				0.940 B				3.80 B			17
18		2.75 B				0.880 B				3.10 B			18
19		2.35 B				0.820 B				2.50 B			19
20		2.05 B				0.790 B				2.17 B			20
21		1.83 B				1.50 B				1.88 B			21
22		1.65 B				2.75 B				1.68 B			22
23		1.50 B				1.85 B				1.52 B			23
24		1.60 B				1.45 B				1.40 B			24
25		3.90 B				1.12 B				1.37 B			25
26		3.20 B				0.920 B				2.70 B			26
27		2.75 B				0.770 B				5.75			27
28		2.43 B				0.650 B				3.81			28
29		2.17 B								2.85			29
30		1.95 B								2.86			30
31		1.80 B								2.79			31
TOTAL		112.10				80.850				103.050			TOTAL
MEAN		3.62				2.89				3.32			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		8.04				11.0	13	12.4		0.725	3	0.19	1
2		7.20				8.48	8	5.86		0.654	3	0.17	2
3		4.49			7.0	6.75	4 S	2.33		0.634	3	0.16	3
4		6.02				5.72	3	1.48		0.575	4	0.20	4
5		6.56				4.50	4	1.56		0.509	4	0.18	5
6		4.23				3.67	4	1.27		0.498	4	0.17	6
7		3.89				3.03	4	1.05	15.0	0.657	4 S	0.23	7
8		3.66				2.52	4	0.87		0.554	4	0.19	8
9		2.98				2.27	4	0.78		0.380	5	0.16	9
10		2.56			8.0	2.05	4 S	0.71		0.345	6	0.18	10
11		2.55				2.00	4	0.69		0.318	8	0.22	11
12		2.70				2.54	5	1.10		0.315	9	0.24	12
13		2.59				2.22	4	0.77		0.307	10	0.27	13
14		12.3				6.12	9	4.76		0.324	10	0.28	14
15		8.08				7.16	8	4.95	14.0	0.430	10 S	0.37	15
16		5.59				4.37	2	0.76		0.581	7	0.35	16
17		6.92			8.0	3.35	2 S	0.58		0.810	4	0.28	17
18		10.1				2.77	2	0.48		0.547	3	0.14	18
19		8.46				2.34	2	0.40		0.397	3	0.10	19
20		5.39				2.26	2	0.39		2.43	6	1.26	20
21		4.51				2.11	2	0.36	19.0	1.56	3 S	0.40	21
22		4.43				1.76	2	0.30		0.772	2	0.13	22
23		3.48				1.49	2	0.26		0.565	2	0.10	23
24		2.96				1.33	2	0.23		0.729	2	0.13	24
25		2.51			10.0	1.38	2 S	0.24		0.575	2	0.10	25
26		2.19				1.46	2	0.25		0.436	2	0.08	26
27		2.57				1.14	2	0.20		0.386	2	0.07	27
28		12.1				1.00	2	0.17	23.0	0.317	2 S	0.05	28
29		25.8				0.839	3	0.22		0.285	2	0.05	29
30		12.3				0.771	3	0.20		1.74	7	1.05	30
31					18.0	0.766	3 S	0.20					31
TOTAL		187.16				99.166		45.82		19.355		7.50	TOTAL
MEAN		6.24				3.20		1.48		0.645		0.25	MEAN

NOVA SCOTIA

MIDDLE RIVER AT ROCKLIN - STATION NO. 01DP004

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1.26	4	0.44		0.447	1	0.04		0.245	1	0.02	1
2		0.621	4	0.21	27.0	0.363	1 S	0.03		0.301	2	0.05	2
3		0.403	3	0.10		0.355	1	0.03		2.63	6	1.36	3
4		0.334	2	0.06		0.381	1	0.03		5.09	11	4.84	4
5	25.0	0.303	2 S	0.05		0.359	1	0.03		1.79	8	1.24	5
6		0.265	2	0.05		0.524	1	0.05		0.985	7 S	0.60	6
7		0.228 E	2	0.04		0.388	1	0.03		0.752	6	0.39	7
8		0.202 E	2	0.03		0.314	1	0.03		0.624	5	0.27	8
9		0.180 E	1	0.02		0.277	1	0.02		0.520	5	0.22	9
10		0.161 E	1	0.01		3.79	6	1.96		0.460	4	0.16	10
11		0.145 E	1	0.01		2.82	4	0.97		0.406	3	0.11	11
12	24.0	0.133 E	1 S	0.01		1.35	2	0.23		0.348	2	0.06	12
13		0.122 E	1	0.01		4.20	5	1.81		0.319	2 S	0.06	13
14		0.112 E	1	0.01		2.97	5	1.28		0.300	2	0.05	14
15		0.103 E	1	0.01		1.55	4	0.54		0.291	2	0.05	15
16		0.098 E	1	0.01	23.0	1.02	4 S	0.35		0.285	2	0.05	16
17		0.091 E	1	0.01		0.735	4	0.25		0.370	2	0.06	17
18		0.085 E	1	0.01		0.566	3	0.15		0.358	2	0.06	18
19	28.0	0.079 E	1 S	0.01		0.486	2	0.08		0.358	2	0.06	19
20		0.076 E	1	0.01		0.443	2	0.08		0.306	2 S	0.05	20
21		1.86	5	0.80		0.432	1	0.04		1.72	6	0.89	21
22		1.10	1	0.10		0.336	1	0.03		2.84	7	1.72	22
23		0.585	1	0.05		0.298	1	0.03		5.11	9	3.97	23
24		0.420	1	0.04		0.288	1	0.02		2.67	6	1.38	24
25		0.309	1	0.03		0.555	1	0.05		1.63	5	0.70	25
26		0.265	1	0.02		0.663	1	0.06		1.14	4	0.39	26
27		0.215 E	1	0.02		0.564	1	0.05		0.885	2 S	0.15	27
28		0.180 E	1	0.02		0.395	1	0.03		0.860	2	0.15	28
29		4.15	7	2.51		0.297	1	0.03		0.761	2	0.13	29
30		1.70	2	0.29		0.259	1	0.02		0.669	2	0.12	30
31		0.704	1	0.06		0.243	1	0.02					31
TOTAL		16.489		5.05		27.668		8.37		35.023		19.36	TOTAL
MEAN		0.532		0.16		0.892		0.27		1.17		0.65	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.604	2	0.10		0.326	1	0.03		4.57	3	1.18	1
2		0.735	1	0.06		0.322	1	0.03		3.79	2	0.65	2
3		0.901	1	0.08		0.901	4	0.31		3.62	2	0.63	3
4		0.713	1 S	0.06		0.740	2	0.13		3.62	2	0.63	4
5		0.592	1	0.05		0.601	2	0.10		3.14	2	0.54	5
6		0.507	1	0.04		0.607	1	0.05		2.82	3 S	0.73	6
7		0.477	1	0.04		0.526	1	0.05		4.38	4	1.51	7
8		0.440	1	0.04		0.465	1 S	0.04		3.15	2	0.58	8
9		0.415	1	0.04		0.425	1	0.04		2.48	2	0.43	9
10		0.458	1	0.04		0.438	1	0.04		2.09	2	0.36	10
11		0.457	1	0.04		0.475	1	0.04		2.93	2	0.51	11
12		0.431	1	0.04		0.628	1	0.05		3.17	2	0.55	12
13		0.395	1	0.03		0.735	2	0.13		2.62	2	0.45	13
14		0.411	1	0.04		3.65	9	2.84		2.40 B	2	0.41	14
15		1.14	4	0.39		2.16	3 S	0.56		2.20 B	2	0.38	15
16		0.883	3	0.23		6.14	11	5.84		3.26	3	0.84	16
17		0.709	3	0.18		3.64	3	0.94		18.3	22	34.8	17
18		0.585	3 S	0.15		2.37	2	0.41		9.31	11	8.85	18
19		0.479	3	0.12		1.83	2	0.32		5.55	3	1.44	19
20		0.433	2	0.07		1.49	2	0.26		5.53	3	1.43	20
21		0.422	2	0.07		1.34	2	0.23		8.78	6	4.55	21
22		0.418	2	0.07		1.33	2 S	0.23		5.61	2	0.97	22
23		0.409	2	0.07		1.27	2	0.22		4.00	2	0.69	23
24		0.411	1	0.04		1.52	2	0.26		3.02	2	0.52	24
25		0.390	1 S	0.03		1.85	2	0.32		3.19	2	0.55	25
26		0.368	1	0.03		1.41	2	0.24		7.16	6	3.71	26
27		0.352	1	0.03		1.40	2	0.24		6.60	4	2.28	27
28		0.339	1	0.03		1.10	2	0.19		4.73	2	0.82	28
29		0.328	1	0.03		2.46	4	0.85		8.67	4	3.00	29
30		0.324	1	0.03		10.1	16	14.0		7.51	2	1.30	30
31		0.339	1	0.03						4.74	2	0.82	31
TOTAL		15.860		2.30		52.249		28.99		152.94		76.07	TOTAL
MEAN		0.512		0.07		1.74		0.97		4.93		2.45	MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 29 50 N
LONG 62 46 51 W
DRAINAGE AREA 92.2 km²
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

PEMBROKE RIVER AT GLENBERVIE - STATION NO. 01DG018

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	5.0	1.82	1 S	0.16		2.00 B	1	0.17		1.00 B	1	0.09	1
2		2.04	2	0.35		3.00 B	1	0.26		0.920 B	1	0.08	2
3		3.10	1	0.27	0.1	3.80 B	1 S	0.33		0.860 B	1 S	0.07	3
4		2.39	1	0.21	0.5	5.30 B	5 S	2.29	0.1	0.840 B	1	0.07	4
5	1.0	19.4	24 S	40.2		5.80 B	1	0.50		2.00 B	2	0.35	5
6	0.1	13.3	4 S	4.60		4.90 B	1	0.42		4.00 B	4	1.38	6
7		6.43 B	2	1.11		3.90 B	1	0.34		5.00 B	1	0.43	7
8		4.16 B	2	0.72		3.10 B	1	0.27	0.5	10.0 B	4 S	3.46	8
9		2.92 B	1	0.25		2.70 B	1	0.23		9.00 B	1	0.78	9
10		2.57 B	1	0.22	0.1	2.50 B	1 S	0.22		8.00 B	1	0.69	10
11		2.21 B	1	0.19		2.10 B	1	0.18		6.50 B	1	0.56	11
12		2.06 B	1	0.18		1.85 B	1	0.16	1.5	5.00 B	1 S	0.43	12
13	0.1	1.85 B	1 S	0.16		1.70 B	1	0.15		5.40 B	1	0.47	13
14		1.75 B	1	0.15		1.55 B	1	0.13		5.80 B	1	0.50	14
15		2.71 B	1	0.23		1.48 B	1	0.13		6.20 B	1	0.54	15
16		3.55 B	1	0.31		1.40 B	1	0.12		5.36 B	1	0.46	16
17		2.41 B	1	0.21	0.1	1.30 B	1 S	0.11		3.95 B	1	0.34	17
18		1.95 B	1	0.17		1.20 B	1	0.10		2.39 B	1	0.21	18
19		1.63 B	1	0.14		1.10 B	1	0.10		2.06 B	1	0.18	19
20	0.1	1.55 B	1 S	0.13		1.05 B	1	0.09		1.60 B	1	0.14	20
21		1.46 B	1	0.13		1.50 B	2	0.26	1.0	1.45 B	1 S	0.13	21
22		1.45 B	1	0.13		2.00 B	5	0.86		1.38 B	1	0.12	22
23		1.42 B	1	0.12		2.10 B	1	0.18		1.28 B	1	0.11	23
24		2.20 B	3	0.57	0.5	1.90 B	1 S	0.16		1.22	1	0.11	24
25		4.40 B	2	0.76		1.60 B	1	0.14		1.19	1	0.10	25
26		3.50 B	1	0.30		1.40 B	1	0.12		2.02	2	0.35	26
27	0.1	2.50 B	1 S	0.22		1.30 B	1	0.11		3.69	2	0.64	27
28		2.00 B	1	0.17		1.20 B	1	0.10	0.1	2.76	1 S	0.24	28
29		1.70 B	1	0.15						2.28	1	0.20	29
30		1.50 B	1	0.13						2.22	1	0.19	30
31		1.37 B	1	0.12						2.32	1	0.20	31
TOTAL		103.30		52.76		64.73		8.23		107.690		13.62	TOTAL
MEAN		3.33		1.70		2.31		0.29		3.47		0.44	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		5.20	4	1.80		8.55	2	1.48		0.439	1	0.04	1
2		5.56	1	0.48		6.33	1	0.55	14.0	0.414	1 S	0.04	2
3		3.80	1	0.33		5.31	1	0.46		0.365	1	0.03	3
4	2.0	4.98	4 S	1.72		4.38	1	0.38		0.298	1	0.03	4
5		5.84	1	0.50	6.0	3.83	1 S	0.33		0.264	1	0.02	5
6		3.91	1	0.34		2.80	1	0.24		0.240	1	0.02	6
7		3.14	1	0.27		2.13	1	0.18		0.238	2	0.04	7
8	2.5	2.60	1 S	0.22		1.87	1	0.16	12.0	0.241	2 S	0.04	8
9		2.07	1	0.18		1.62	1	0.14	20.5	0.218	1 S	0.02	9
10		1.86	1	0.16		1.23	1	0.11		0.189	1	0.02	10
11	4.5	1.88	1 S	0.16	7.0	1.21	1 S	0.10		0.140	1	0.01	11
12		2.02	1	0.17		1.42	1	0.12		0.170	1	0.01	12
13		1.95	1	0.17		1.23	1	0.11		0.144	1	0.01	13
14		8.31	5	3.59	6.5	3.36	4 S	1.16		0.156	1	0.01	14
15		6.36	1	0.55		3.48	2	0.60	11.5	0.502	1 S	0.04	15
16		4.61	1	0.40		2.43	1	0.21		0.418	1	0.04	16
17		5.45	2	0.94		1.84	1	0.16	14.0	0.685	1 S	0.06	17
18	3.0	9.65	2 S	1.67		1.70	1	0.15		0.459	1	0.04	18
19		8.23	1	0.71		1.39	1	0.12		0.352	1	0.03	19
20		5.32	1	0.46		1.62	1	0.14	15.5	1.53	3 S	0.40	20
21		4.21	1	0.36	10.5	1.75	1 S	0.15	17.5	1.20	1 S	0.10	21
22		4.87	1	0.42		1.37	1	0.12		0.608	1	0.05	22
23		3.24	1	0.28		1.08	1	0.09		0.452	1	0.04	23
24		2.74	1	0.24		0.988	1	0.09	13.5	0.826	1 S	0.07	24
25	2.5	2.12	1 S	0.18		0.979	1	0.08		0.686	1	0.06	25
26		1.77	1	0.15	16.5	1.07	1 S	0.09		0.828	1	0.07	26
27		2.64	2	0.46		0.813	1	0.07		0.601	1	0.05	27
28	7.5	19.8	38 S	65.0		0.688	1	0.06		0.466	1	0.04	28
29	3.0	29.8	45 S	116		0.616	1	0.05		0.372	1	0.03	29
30		11.8	4	4.08		0.490	1	0.04	14.5	1.73	3 S	0.45	30
31						0.420	1	0.04					31
TOTAL		175.73		201.99		67.994		7.78		15.231		1.91	TOTAL
MEAN		5.86		6.73		2.19		0.25		0.508		0.06	MEAN

NOVA SCOTIA

PEMBROKE RIVER AT GLENDERVIE - STATION NO. 01DG018

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1.50	1	8.13		1.17	1	0.10	13.0	0.241	1 S	0.02	1
2		0.892	1	0.08		0.854	1	0.07	14.5	0.571	2 S	0.10	2
3		0.640	1	0.06	16.5	0.864	1 S	0.07	14.5	6.75	5 S	2.92	3
4		0.506	1	0.04		0.802	1	0.07	16.5	9.76	2 S	1.69	4
5		0.360	1	0.03		0.636	1	0.05		3.89	1	0.34	5
6		0.260	1	0.02	14.5	0.659	1 S	0.06		2.41	1	0.21	6
7	22.0	0.242	1 S	0.02		0.604	1	0.05		1.77	1	0.15	7
8		0.237	1	0.02		0.500	1	0.04		1.23	1	0.11	8
9		0.176	1	0.02		0.400	1	0.03		1.02	1	0.09	9
10		0.151	1	0.01	16.5	5.29	8 S	3.66		0.837	1	0.07	10
11		0.130	1	0.01	15.5	4.26	2 S	0.78		0.698	1	0.06	11
12		0.132	1	0.01		2.20	1	0.19		0.578	1	0.05	12
13	22.0	0.138	1 S	0.01	15.0	5.92	4 S	2.05	18.5	0.493	1 S	0.04	13
14	23.5	0.116	1 S	0.01	10.5	4.81	2 S	0.83		0.464	1	0.04	14
15		0.112	1	0.01		2.78	1	0.24		0.414	1	0.04	15
16		0.106	1	0.01		1.85	1	0.16		0.381	1	0.03	16
17		0.085	1	0.01	17.0	1.29	1 S	0.11		0.426	1	0.04	17
18		0.074	1	0.01		1.05	1	0.09		0.454	1	0.04	18
19		0.080	1	0.01		0.920	1	0.08		0.376	1	0.03	19
20		0.090	1	0.01		0.720	1	0.06		0.331	1	0.03	20
21	19.5	5.87	26 S	13.2		0.574	1	0.05	12.5	1.20	2 S	0.21	21
22	19.5	2.71	3 S	0.70		0.503	1	0.04	13.0	1.67	2 S	0.29	22
23		1.79	1	0.15	14.0	0.393	1 S	0.03	14.5	3.06	2 S	0.53	23
24		1.14	1	0.10		0.392	1	0.03	15.0	2.06	1 S	0.18	24
25		0.780	1	0.07	15.5	0.870	2 S	0.15		1.43	1	0.12	25
26		0.584	1	0.05		0.757	1	0.07		1.04	1	0.09	26
27		0.374	1	0.03		0.713	1	0.06		0.844	1	0.07	27
28		0.345	1	0.03		0.498	1	0.04		0.808	1	0.07	28
29	17.0	7.19	8 S	4.97		0.415	1	0.04	16.0	0.739	1 S	0.06	29
30	19.0	3.93	1 S	0.34		0.336	1	0.03		0.603	1	0.05	30
31		1.84	1	0.16		0.301	1	0.03					31
TOTAL		32.578		20.33		43.331		9.32		46.548		7.77	TOTAL
MEAN		1.05		0.66		1.40		0.30		1.55		0.26	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.541	1	0.05		0.242	1	0.02		3.04	2	0.53	1
2	13.0	0.576	2 S	0.10		0.238	1	0.02		2.58	1	0.22	2
3	10.0	0.757	1 S	0.07	9.0	1.06	2 S	0.18		2.55	1	0.22	3
4	10.0	0.631	1 S	0.05	12.0	0.822	1 S	0.07	5.0	2.99	3 S	0.78	4
5		0.536	1	0.05	14.0	0.695	1 S	0.06		2.92	1	0.25	5
6		0.475	1	0.04	11.5	0.868	1 S	0.07	5.0	2.80	3 S	0.73	6
7	9.0	0.470	1 S	0.04		0.756	1	0.07	5.0	3.60	2 S	0.62	7
8		0.400	1	0.03	4.0	0.653	1 S	0.06		2.97	1	0.26	8
9		0.342	1	0.03		0.573	1	0.05		2.59	1	0.22	9
10		0.309	1	0.03		0.512	1	0.04		2.32	1	0.20	10
11		0.310	1	0.03		0.498	1	0.04	0.1	2.40	2 S	0.41	11
12		0.281	1	0.02		0.478	1	0.04		2.42	1	0.21	12
13		0.306	1	0.03		0.502	1	0.04		2.36	2	0.41	13
14		0.275	1	0.02	7.0	2.12	3 S	0.55		2.43	1	0.21	14
15	10.5	0.971	1 S	0.08	5.0	1.66	1 S	0.14		2.35	1	0.20	15
16	9.0	0.852	1 S	0.07	9.0	4.82	3 S	1.25		2.19	1	0.19	16
17		0.683	1	0.06	3.0	3.44	1 S	0.30	2.0	5.85	13 S	6.57	17
18		0.541	1	0.05		2.34	1	0.20		4.57	1	0.39	18
19		0.428	1	0.04		1.81	1	0.16		3.33	1	0.29	19
20		0.422	1	0.04		1.35	1	0.12		3.13	2	0.54	20
21		0.361	1	0.03		1.20	1	0.10		4.04	2	0.70	21
22		0.330	1	0.03		1.15	1	0.10		3.23	1	0.28	22
23	7.5	0.333	1 S	0.03		1.06	1	0.09		2.72	1	0.24	23
24		0.322	1	0.03	8.5	1.27	1 S	0.11		2.35	1	0.20	24
25		0.315	1	0.03		1.53	1	0.13		2.24	1	0.19	25
26		0.309	1	0.03		1.42	1	0.12	2.0	3.02	3 S	0.78	26
27		0.300	1	0.03		1.37	1	0.12	0.5	3.34	1 S	0.29	27
28		0.256	1	0.02		1.22	1	0.11	0.5	3.15 A	2 S	0.54	28
29		0.245	1	0.02	0.1	1.85	4 S	0.64	4.0	4.67 A	4 S	1.61	29
30	8.0	0.250	1 S	0.02	3.0	4.47	7 S	2.70		4.33	1	0.37	30
31		0.249	1	0.02						3.21	1	0.28	31
TOTAL		13.376		1.22		41.977		7.70		95.69		18.93	TOTAL
MEAN		0.431		0.04		1.40		0.26		3.09		0.61	MEAN

SUMMARY FOR THE YEAR 1982

TOTAL SUSPENDED SEDIMENT LOAD 351.56 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	5	
MAXIMUM DAILY	45	ON APR 29
MINIMUM DAILY	1	ON JAN 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	0.96	
MAXIMUM DAILY	116	ON APR 29
MINIMUM DAILY	0.01	ON JUN 11

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 15 54 N
LONG 62 56 29 W
DRAINAGE AREA 73.3 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		4.20 B	15	5.46		2.23 B	6	1.16		2.01 B	6	1.04	1
2		5.80 B	22	11.0		2.21 B	6	1.15		2.01 B	6	1.04	2
3		5.20 B	19	8.54		2.20 B	5	0.95		2.01 B	5	0.87	3
4		7.65 B	32	21.2		2.18 B	5	0.98		2.01 B	6	1.04	4
5		57.0	98	483		2.15 B	5	0.93		2.10 B	5	0.91	5
6		46.3	62	248		2.13 B	5	0.92		2.18 B	6	1.13	6
7		24.0 B	42	87.1		2.12 B	6	1.10		2.16 B	7	1.31	7
8		12.0 B	34	35.3		2.11 B	6	1.09		2.12 B	7	1.28	8
9		8.60 B	30	22.3		2.11 B	6	1.09		2.10 B	7	1.27	9
10		6.40 B	25	13.8		2.10 B	5	0.91		2.02 B	7	1.22	10
11		5.00 B	21	9.07		2.10 B	6	1.09		2.20 B	10	1.90	11
12		4.50 B	18	7.08		2.09 B	6	1.08		2.90 B	20	5.01	12
13		4.10 B	17	6.02		2.08 B	6	1.08		11.0 B	55	52.3	13
14		3.80 B	15	4.92		2.08 B	6	1.08		58.0 B	215	1 080	14
15		3.55 B	14	4.29		2.07 B	6	1.07		96.0 B	129	1 070	15
16		3.35 B	13	3.76		2.05 B	8	1.42		104 B	98	881	16
17		3.15 B	12	3.27	0.1	2.03 B	9 S	1.58		118 B	126	1 280	17
18		2.95 B	10	2.55		2.03 B	9	1.58		130 B	99	1 110	18
19		2.80 B	8	1.94		2.10 B	9	1.63		122 B	75	791	19
20	0.1	2.66 B	8 S	1.84		2.20 B	8	1.52		116 B	91	912	20
21		2.64 B	7	1.60		2.18 B	8	1.51	0.1	110 B	104 S	988	21
22		2.59 B	7	1.57		2.10 B	8	1.45	0.1	100 E	86 S	743	22
23		2.54 B	7	1.54		2.01 B	8	1.39	0.1	85.0 A	88 S	646	23
24		2.50 B	6	1.30		2.01 B	7	1.22	0.1	89.2	82 S	632	24
25		2.46 B	6	1.28		2.01 B	7	1.22	0.1	83.3	60 S	432	25
26		2.42 B	6	1.25		2.01 B	7	1.22		64.3	45	250	26
27		2.39 B	7	1.45		2.01 B	6	1.04		42.5	40	147	27
28		2.34 B	6	1.21		2.01 B	6	1.04		28.0	34	82.3	28
29		2.32 B	6	1.20					3.0	23.1	34 S	67.9	29
30		2.30 B	6	1.19						30.0	99 S	257	30
31		2.27 B	5	0.98						133	1 630 S	18 700	31
TOTAL		239.78		994.91		58.71		33.46		1 569.22		30 139.52	TOTAL
MEAN		7.73		32.1		2.10		1.20		50.6		972	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	2.0	159	636 S	8 740		5.17	48	21.4		7.36	137	87.1	1
2		111	184 S	1 760		4.67	50	20.2		5.90	111 S	56.6	2
3	8.0	62.0	99 S	530		4.24	54	19.8		4.85	83	34.8	3
4		47.6	75	308	10.0	3.83	75 S	24.8		4.04	56	19.5	4
5		28.3	67	164		3.50	88	26.6		3.47	41	12.3	5
6		23.3	64	123		3.22	89	24.8		6.53	110 S	62.1	6
7		18.1	44	68.8		3.04	86	22.6	14.0	6.43	84 S	46.7	7
8		16.3	35 S	49.3		3.03	84	22.0		5.87	73	37.0	8
9		19.3	44 S	73.4	15.0	2.96	83 S	21.2		5.30	98	44.9	9
10		25.1	92 S	200		2.77	85	20.3		4.96	149	63.9	10
11		22.0	36 S	68.4		2.53	80	17.5		4.43	163	62.4	11
12		21.9	31 S	58.7		2.31	76	15.2	20.0	3.59	135 S	41.9	12
13		23.6	42 S	85.6	17.0	2.17	71 S	13.3		3.02	99	25.8	13
14		26.5	56 S	128		2.03	67	11.8		2.46	65	13.8	14
15		23.2	53 S	106		1.91	67	11.1		2.24	31	6.00	15
16		19.9	84 S	144		1.84	70	11.1	20.0	2.61	32 S	7.22	16
17		24.5	232 S	491		1.76	74	11.3	14.0	7.34	100 S	63.4	17
18		25.2	161	351	18.0	1.63	87 S	12.3		5.14	35	15.5	18
19		18.4	142	226		1.60	106	14.7		4.80	47	19.5	19
20		15.2	130	171		1.88	133	21.6	18.0	10.2	190 S	167	20
21		14.0	121	146		1.89	123	20.1		9.57	153	127	21
22		13.4	118	137		1.66	100	14.3		8.51	232	171	22
23		12.3	110	117		2.31	136	27.1		6.88	210	125	23
24	10.0	10.6	98 S	89.8	17.0	2.07	89 S	15.9		5.21	197	88.7	24
25		8.99	86	66.8		1.90	89	14.6	19.0	3.99	188 S	64.8	25
26		7.89	81	55.2		1.78	98	15.1		3.33	174	50.1	26
27		7.28	72	45.3	17.0	1.81	125 S	19.5		3.07	170	45.1	27
28		6.85	60	35.5	20.0	8.36	353 S	255		2.94	166	42.2	28
29	12.0	6.26	56 S	30.3	18.5	23.5	634 S	1 290		2.92	142 S	35.8	29
30		5.71	52	25.7	19.0	13.1	176 S	199		3.11	158	42.5	30
31					20.0	9.89	159 S	136					31
TOTAL		822.68		14 594.8		124.36		2 370.2		150.07		1 679.62	TOTAL
MEAN		27.4		486		4.01		76.5		5.00		56.0	MEAN

ONTARIO

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		3.26	167	47.0		0.783	68	4.37		1.18	76	7.75	1
2		2.41	125	26.0		0.929	81	6.50		1.07	66	6.10	2
3	19.5	1.95	102 S	17.2	21.0	1.24	113 S	12.1		1.31	72	8.15	3
4		1.78	94	14.5		1.76	149	22.7	17.0	1.31	72 S	8.15	4
5		1.75	91	13.8		1.83	149	23.6		1.17	69	6.98	5
6		1.57	84	11.4		1.42	136	16.7		1.17	64	6.47	6
7		1.39	82	9.85		1.10	119	11.3		1.06	61	5.59	7
8	20.5	1.23	78 S	8.29		0.999	108	9.32		0.939	55	4.46	8
9		1.07	75	6.93		0.961	107	8.88	20.0	0.838	56 S	4.05	9
10		0.964	72	6.00		0.932	108	8.70		0.801	60	4.15	10
11		0.911	70	5.51	19.5	0.819	108 S	7.64		0.779	59	3.97	11
12		0.867	68	5.09		0.813	102	7.16		0.754	58	3.78	12
13	21.0	0.836	64 S	4.62		0.784	98	6.64		0.702	56	3.40	13
14		0.805	69	4.80		0.757	85	5.56		0.638	53	2.92	14
15		0.776	67	4.49		0.750	81	5.25		0.632	52	2.84	15
16	20.0	0.732	71 S	4.49	24.0	0.843	90 S	6.56		0.624	55	2.97	16
17		0.708	71	4.34		0.736	80	5.09	16.0	0.809	66 S	4.61	17
18		0.703	72	4.37		0.603	82	4.27		1.00	74	6.39	18
19		0.789	76	5.18	24.0	0.616	98 S	5.22		0.943	68	5.54	19
20		0.784	79	5.35		0.673	98	5.70		0.852	65	4.78	20
21		0.822	83	5.89		0.681	90	5.30		1.12	84	8.13	21
22	20.5	0.795	86 S	5.91		0.640	77	4.26		1.13	77	7.52	22
23		0.710	78	4.78		0.664	89	5.11		1.10	65	6.18	23
24		0.670	74	4.28		0.734	93	5.90		1.26	64	6.97	24
25		0.627	69	3.74	16.0	3.67	249 S	79.0		2.12	69 S	12.6	25
26		0.603	66	3.44		4.33	221	82.7		5.46	128	60.4	26
27		0.581	64	3.21		2.78	170	40.8		6.85	170	101	27
28	20.0	0.580	68 S	3.41		3.48	176	52.9		11.0	156	148	28
29		0.603	66	3.48		2.40	131	27.2		9.65	63 S	52.5	29
30		0.674	65	3.79		1.67	105	15.2	18.0	8.69	61 S	45.8	30
31		0.666	62	3.57		1.34	88	10.2					31
TOTAL		32.616		254.67		41.697		511.83		66.961		552.15	TOTAL
MEAN		1.05		8.22		1.34		16.5		2.23		18.4	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		7.69	62	41.2		1.53	23	3.04		37.6	40	130	1
2		6.06	61	31.9		7.46	122 S	78.6	5.0	30.8	39 S	104	2
3		4.58	61	24.1		21.6	291	543		22.6	33	64.4	3
4		3.37	64	18.6		18.6	105	169		35.8	85	263	4
5		2.54	70	15.4		12.9	41	45.7		51.1	60	265	5
6	17.0	2.05	77 S	13.6		9.76	21	17.7	4.0	62.4	125 S	674	6
7		1.74	64	9.62		7.76	14 S	9.39		53.1	58 S	266	7
8		1.60	55	7.60		6.32	13	7.10	2.0	33.8	28 S	81.8	8
9		1.53	47	6.21		5.24	15	6.79		23.5	22	44.7	9
10		1.39	43	5.16		4.37	16	6.04		17.4	20	30.1	10
11		1.39	40	4.80		4.89	35	14.8		14.4	16	19.9	11
12	15.0	1.40	37 S	4.48		24.5	325 S	688		11.5 B	12	11.9	12
13		1.38	34	4.05		40.7	244 S	858		10.7 B	10	9.24	13
14		1.35	34	3.97		27.0	27	63.0	0.5	11.9	9 S	9.25	14
15		1.35	32	3.73		21.7	16	30.0		9.33	10	8.06	15
16		1.79	35	5.41	3.0	17.2	9 S	13.4	1.0	39.9	140 S	483	16
17		12.1	148	155		13.4	9	10.4		49.8	149	641	17
18	10.0	13.4	77 S	89.1		10.9	9	8.48		30.0	31	80.4	18
19		6.62	40	22.9		9.38	10	8.10		21.5	23	42.7	19
20		4.54	30	11.8		8.60	11	8.17		16.5	16	22.8	20
21	8.0	4.52	30 S	11.7		19.9	130 S	224		13.6	15	17.6	21
22		3.63	15	4.70	10.0	38.3	127 S	420		11.5	15	14.9	22
23		2.90	14	3.51		31.6	47	128		10.9	20	18.8	23
24		2.64	19	4.33		56.6	241	1 180	1.0	53.0	223 S	1 020	24
25	7.5	2.34	17 S	3.44		47.5	75	308	1.0	111	177 S	1 700	25
26		2.09	18	3.25		29.7	28	71.9	1.0	183	128 S	1 580	26
27		1.88	20	3.25		21.6	14	26.1	1.0	104	62 S	557	27
28		1.82	20	3.14		16.0	16	22.1	1.0	58.1	62 S	311	28
29		1.66	13	1.86	2.0	24.5	77 S	163		41.5	26	93.2	29
30		1.50	13	1.68	4.0	41.7	65 S	234		26.5	23	52.7	30
31		1.46	15	1.89						18.8	22	35.7	31
TOTAL		104.31		521.38		601.21		5 365.81		1 175.53		8 652.15	TOTAL
MEAN		3.36		16.8		20.0		179		37.9		279	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	152	
MAXIMUM DAILY	1 630	ON MAR 31
MINIMUM DAILY	5	ON JAN 31

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	180	
MAXIMUM DAILY	18 700	ON MAR 31
MINIMUM DAILY	0.87	ON MAR 03

TOTAL SUSPENDED SEDIMENT LOAD 65 670.50 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 04 20 N
LONG 81 39 35 W
DRAINAGE AREA 865 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAR 31	09:00	133 H		1 730 K	34	50	74	96	99	99	100					BNW
APR 01	09:15	159 H	2.0	452 K	38	51	78	93	98	99	100					BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		4.92	164	69.7		3.68 B	22	6.99	0.1	3.42 B	14 S	4.14	1
2	0.5	5.05	178 S	77.7	0.1	3.70 B	14 S	4.48	0.1	3.45 B	15 S	4.47	2
3		4.82	79	32.9		3.69 B	10	3.19		3.49 B	16	4.82	3
4		7.32	399	252		3.65 B	9	2.84	0.1	3.52 B	16 S	4.87	4
5	2.0	10.8	247 S	230		3.62 B	10	3.13		3.57 B	17	5.24	5
6		8.76	59	44.7	0.1	3.60 B	16 S	4.98	0.1	3.59 B	22 S	6.82	6
7	1.5	7.68 B	43 S	28.5		3.57 B	17	5.24		3.57 B	23	7.09	7
8		7.10 B	41	25.2	0.1	3.55 B	10 S	3.07	0.1	3.56 B	18 S	5.54	8
9		6.65 B	43 S	24.7	0.1	3.54 B	12 S	3.67		3.55 B	64	19.6	9
10		6.30 B	43	23.4		3.53 B	19	5.79	0.1	3.70 B	248 S	79.3	10
11		6.00 B	37	19.2		3.52 B	23	6.99	0.1	4.40 B	408 S	155	11
12	0.1	5.70 B	33 S	16.3		3.51 B	46	14.0	0.1	12.2	393 S	414	12
13		5.50 B	34	16.2	0.1	3.57 B	42 S	13.0		21.7	197	369	13
14	0.1	5.25 B	88 S	39.9		3.65 B	41	12.9		59.2	402	2 060	14
15		5.07 B	166	72.7	0.1	3.70 B	49 S	15.7	0.1	46.1	215 S	856	15
16	0.1	4.93 B	154 S	65.6		3.80 B	61	20.0		37.2	47	151	16
17		4.75 B	93	38.2	0.1	3.78 B	31 S	10.1		40.8	88	310	17
18		4.60 B	44	17.5		3.70 B	24	7.67	0.1	42.5	75 S	275	18
19		4.40 B	40	15.2		3.65 B	23	7.25	0.1	37.2	88 S	283	19
20	0.1	4.25 B	27 S	9.91		3.60 B	19	5.91		33.8	110	321	20
21		4.15 B	22	7.89		3.58 B	15	4.64		31.1	114	306	21
22		4.05 B	21	7.35	0.1	3.56 B	13 S	4.00	2.5	29.5	111 S	283	22
23		4.20 B	67	24.3	0.1	3.54 B	17 S	5.20	4.0	28.6	113 S	279	23
24		4.80 B	54	22.4		3.52 B	22	6.69		27.6	123	293	24
25		4.40 B	18	6.84		3.50 B	24	7.26	3.5	28.7	116 S	288	25
26		4.10 B	15	5.31		3.49 B	21	6.33	3.0	30.2	97 S	253	26
27	0.1	4.00 B	16 S	5.53	0.1	3.45 B	20 S	5.96		25.7	100	222	27
28		3.85 B	17	5.65		3.43 B	19	5.63		19.3	124	207	28
29		3.77 B	18	5.86					3.5	15.4	183 S	243	29
30	0.1	3.70 B	18 S	5.75					5.5	14.4	146 S	182	30
31		3.67 B	18	5.71					5.0	19.6	589 S	997	31
TOTAL		169.54		1 222.10		100.68		202.61		640.62		8 888.89	TOTAL
MEAN		5.31		39.4		3.60		7.24		20.7		287	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	2.0	27.5	292 S	694	12.5	7.04	31 S	18.9		18.4	783	974	1
2	2.0	41.8	120 S	433		6.88	33	19.6	17.0	13.0	698 S	784	2
3	3.0	37.5	181 S	586		6.66	49	28.2		10.6	442	405	3
4		28.3	169	428		6.46	63	35.2		9.10	320	252	4
5	3.0	25.0	126 S	272	14.0	6.25	56 S	30.2	14.0	9.07	556 S	436	5
6		23.1	168	335		6.01	40	20.8		13.3	972	1 120	6
7		17.3	159	238		5.94	23	11.8	13.5	13.3	555 S	638	7
8	3.0	14.8	128 S	164	15.5	6.42	36 S	20.0		12.1	481	503	8
9		14.4	91	113		6.89	99	58.9	16.5	12.6	577 S	628	9
10	4.5	14.7	79 S	100		6.41	67	37.1		10.8	342	319	10
11		15.1	77	100	13.5	6.15	49 S	26.0		9.00	279	217	11
12		15.4	74	98.5	15.5	5.96	36 S	18.5	16.0	7.94	256 S	176	12
13	6.0	15.3	73 S	96.5	17.0	5.77	44 S	21.9		7.71	235	157	13
14		15.0	71	92.0		5.54	50	23.9	15.5	7.64	214 S	141	14
15	8.0	14.0	67 S	81.0	16.5	5.35	70 S	32.4		7.13	235	145	15
16		13.5	66	77.0		5.25	121	54.9	17.0	7.53	420 S	273	16
17		13.3	79	90.8		5.16	177	78.9		7.68	317	210	17
18		13.4	84	97.3	17.0	4.98	172 S	74.0		7.66	250	165	18
19	10.5	12.5	72 S	77.8		4.80	189	78.4		7.65	220	145	19
20	10.5	13.0	133 S	149	17.5	4.90	271 S	115		7.64	289	191	20
21	8.0	15.0	152 S	197		4.99	356	153	18.5	11.9	1 150 S	1 180	21
22		12.8	63	69.7	13.5	5.25	418 S	190	17.5	11.6	344 S	345	22
23		11.4	60	59.1		5.06	306	134		11.9	403	414	23
24	9.5	10.6	61 S	55.9		4.88	160	67.5		9.78	239	202	24
25		9.65	62	51.7	14.5	4.78	82 S	33.9		8.31	219	157	25
26		8.97	58	45.0		4.67	78	31.5	16.0	8.23	451 S	321	26
27	10.5	8.52	52 S	38.3	11.0	5.09	435 S	191		8.67	352	268	27
28		7.92	46	31.5	17.0	15.8	1 860 S	2 540		7.65	167	110	28
29	11.0	7.56	38 S	24.8		17.3	840	1 260	18.0	8.63	343 S	256	29
30		7.27	34	21.4		12.5	849	917		8.43	281	205	30
31					17.5	14.4	580 S	722					31
TOTAL		485.59		4 917.3		213.58		7 044.5		290.95		11 333	TOTAL
MEAN		16.2		164		6.89		227		9.70		378	MEAN

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		7.43	134	86.0		3.50	168	50.8		3.27	103	29.1	1
2	18.0	7.25	123 S	77.0	20.0	3.55	238 S	73.0	16.5	3.28	96 S	27.2	2
3		7.14	124	76.5		3.88	297	99.6		3.42	157	46.4	3
4		6.61	105	60.0		3.60	150	46.7	15.5	3.45	78 S	23.3	4
5		6.32	98	53.5	20.0	3.56	100 S	30.8		3.21	57	15.8	5
6	18.0	5.86	82 S	41.5		3.45	92	27.4		3.10	57	15.3	6
7		5.58	80	38.6	20.0	3.35	84 S	24.3		3.06	60	15.9	7
8	20.0	5.34	105 S	48.4		3.67	165	52.3	14.5	3.00	61 S	15.8	8
9		5.05	146	63.7		4.37	146	55.1		2.96	62	15.9	9
10	20.5	4.79	158 S	65.4	19.0	3.92	62 S	21.0		2.94	72	18.3	10
11		4.56	115	45.3		3.57	22	6.79	16.0	2.97	97 S	24.9	11
12	20.0	4.47	82 S	31.7	16.0	3.41	13 S	3.83		2.93	75	19.0	12
13		4.26	93	34.2		3.39	11	3.22		2.88	62	15.4	13
14		3.66	141	44.6	16.5	3.37	13 S	3.79	18.5	2.86	54 S	13.3	14
15	20.0	3.40	159 S	46.7		3.28	16	4.53		2.86	58	14.3	15
16		3.33	118	34.0	18.5	3.23	13 S	3.63	16.5	2.93	115 S	29.1	16
17	22.0	3.10	73 S	19.6		3.10	13	3.48		2.95	103	26.3	17
18		3.04	71	18.6		2.95	10	2.55	15.0	3.06	91 S	24.1	18
19	22.5	3.05	71 S	18.7		2.75	21	4.99		3.24	155	43.4	19
20		2.67	71	16.4	20.0	2.57	88 S	19.5	12.5	3.13	109 S	29.5	20
21		2.33	67	13.5		2.71	87	20.8		3.09	66	17.6	21
22	21.5	2.20	102 S	19.4		2.87	82	20.3	12.5	3.33	284 S	81.7	22
23		2.08	123	22.1		2.80	82	19.8	12.0	5.67	328 S	161	23
24	21.0	1.92	120 S	19.9	16.5	2.67	82 S	18.9		5.44	30	14.1	24
25		1.92	110	18.2	18.0	3.10	201 S	53.8	13.0	4.92	68 S	28.9	25
26	22.0	2.03	137 S	24.0		3.73	293	94.4		4.76	39	16.0	26
27		1.96	136	23.0	18.0	3.46	171 S	51.1	13.0	5.12	71 S	31.4	27
28	18.5	3.44	154 S	45.8		3.49	159	47.9		5.67	99	48.5	28
29	21.0	3.72	72 S	23.1		3.49	156	47.0	13.5	5.20	36 S	16.2	29
30	20.0	3.39	166 S	48.6		3.47	147	44.1		5.00	34	14.7	30
31		3.43	214	63.4	17.0	3.38	120 S	35.0					31
TOTAL		125.33		1 241.4		103.64		990.01		109.70		892.4	TOTAL
MEAN		4.04		40.0		3.34		31.9		3.66		29.7	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		4.75	21	8.62	11.0	4.59	9 S	3.57	7.0	9.85	44 S	37.4	1
2	12.5	4.82	29 S	12.1	13.5	7.64	66 S	43.6		9.73	58	48.8	2
3		4.59	19	7.53		8.71	55	41.4	10.0	11.0	94 S	89.3	3
4	12.5	4.35	19 S	7.14		9.40	60	48.7		10.8	71	66.3	4
5		4.19	22	7.96	8.5	8.99	47 S	36.5		10.8	89	83.0	5
6	14.0	4.09	20 S	7.07		7.74	27	18.1		13.5	199	232	6
7		4.06	28	9.82		7.13	23	14.2	7.0	13.7	110 S	130	7
8		4.56	59	23.2		6.96	20	12.0		14.6	124	156	8
9		4.58	43	17.0	6.5	6.68	20 S	11.5	4.5	15.5	131 S	175	9
10		4.39	23	8.72		6.19	18	9.63		12.3	83	88.2	10
11		4.29	13	4.82	7.0	6.43	33 S	18.3		10.4	64	57.5	11
12	13.5	4.28	9 S	3.33		7.83	60	40.6		9.14	52	41.1	12
13		4.18	11	3.97	7.0	7.89	38 S	25.9	0.5	8.17	42 S	29.6	13
14	11.5	4.13	11 S	3.93		7.33	23	16.6		7.71	32	21.3	14
15	11.0	4.13	8 S	2.85	5.0	7.00	20 S	12.1		7.79	78	52.5	15
16		4.13	7	2.50		6.97	19	11.4	4.0	11.6	646 S	647	16
17		4.11	7	2.49	5.0	6.78	20 S	11.7		12.1	294	307	17
18	9.0	4.09	10 S	3.53	5.0	6.53	19 S	10.7		10.2	89	78.4	18
19	9.0	4.06	6 S	2.10		6.17	10	5.33		10.0	52	44.9	19
20		4.07	6	2.11		6.15	10	5.31	2.0	11.2	72 S	69.7	20
21	8.5	4.31	6 S	2.23		8.58	90	66.7		10.1	43	37.5	21
22		4.21	5	1.82	9.0	10.8	87 S	81.2	2.5	8.92	40 S	30.8	22
23	7.0	4.06	4 S	1.40	8.5	9.87	69 S	58.8		8.53	40	29.5	23
24		4.02	4	1.39		11.5	105	104	4.5	11.7	109 S	110	24
25	6.0	3.98	4 S	1.38		12.5	93	100		16.9	320	467	25
26		3.99	4	1.38		10.9	61	57.4		22.8	175	345	26
27		3.98	4	1.38		10.3	43	38.3		24.5	129	273	27
28		3.97	3	1.03		9.54	36	29.7		29.6	196	501	28
29	10.5	3.99	3 S	1.03	4.5	10.3	48 S	42.7	4.5	29.6	146 S	373	29
30		4.05	6	2.10		10.4	54	48.5		21.8	89	168	30
31		4.05	5	1.75					2.0	17.6	71 S	108	31
TOTAL		130.46		157.68		247.80		1 022.44		422.14		4 897.8	TOTAL
MEAN		4.21		5.09		8.26		34.1		13.6		158	MEAN

TOTAL SUSPENDED SEDIMENT LOAD 42 810.13 t

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	163	
MAXIMUM DAILY	1 860	ON MAY 28
MINIMUM DAILY	3	ON OCT 28

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	117	
MAXIMUM DAILY	2 540	ON MAY 28
MINIMUM DAILY	1.03	ON OCT 28

TYPE OF GAUGE - RECORDING
LOCATION - LAT 42 41 05 N
LONG 80 32 15 W

DRAINAGE AREA 591 km^2
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER;
M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 28	10:35	15.8 H	17.0	2 530 K	9	12	24	48	70	87	95	99	100			BNW
JUN 21	10:30	11.9 H	14.5	2 200 K	15	19	39	70	90	95	97	99	100			BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC026

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		6.21	150	80.5		3.70 B	23	7.35		3.55 B	25	7.67	1
2	0.1	6.44	294 S	164		3.67 B	22	6.98		3.55 B	26	7.97	2
3		7.31	228	144		3.64 B	24	7.55		3.60 B	24	7.46	3
4	0.1	13.2	1 060 S	1 210		3.62 B	24	7.51		3.67 B	37	11.7	4
5		27.4	1 630	3 860		3.60 B	24	7.46		3.78 B	71	23.2	5
6		23.7	511	1 050		3.60 B	23	7.15		3.80 B	51	16.7	6
7		16.5	162	231		3.60 B	24	7.46		3.77 B	37	12.1	7
8		10.4 B	121	109		3.60 B	25	7.78		3.74 B	32	10.3	8
9		8.00 B	144	99.5		3.60 B	24	7.46		3.72 B	33	10.6	9
10		6.80 B	112	65.8	0.1	3.60 B	23 S	7.15		3.70 B	36	11.5	10
11		6.00 B	81	42.0		3.60 B	26	8.09		4.00 B	210	72.6	11
12		5.60 B	55	26.6		3.60 B	24	7.46		10.0 B	289	250	12
13		5.30 B	45	20.6		3.60 B	21	6.53		40.0 B	734	2 540	13
14		5.00 B	43	18.6		3.60 B	21	6.53	0.1	110 B	525 S	4 990	14
15		4.75 B	45	18.5		3.78 B	25	8.16	0.1	96.2 B	718 S	5 970	15
16		4.55 B	37	14.5	0.1	4.00 B	31 S	10.7	0.1	110 B	779 S	7 400	16
17		4.35 B	29	10.9		3.97 B	31	10.6	0.1	129	714 S	7 960	17
18	0.1	4.22 B	29 S	10.6		3.90 B	27	9.10	0.1	98.9	802 S	6 580	18
19		4.10 B	26	9.21		3.85 B	27	8.98	0.1	63.7	1 150 S	6 330	19
20		4.00 B	27	9.33		3.78 B	24	7.84	0.2	51.4	1 670 S	7 420	20
21		3.90 B	27	9.10		3.70 B	23	7.35		52.1	860	3 870	21
22		3.80 B	25	8.21		3.63 B	25	7.84		48.0	584	2 420	22
23		3.90 B	37	12.5		3.60 B	27	8.40		47.9	602	2 490	23
24		4.40 B	79	30.0		3.59 B	25	7.75	0.3	49.6	680 S	2 910	24
25		4.20 B	67	24.3		3.58 B	25	7.73	0.1	47.5	700 S	2 870	25
26		4.05 B	39	13.6		3.57 B	23	7.09		39.1	666	2 250	26
27		4.00 B	27	9.33		3.56 B	24	7.38		29.1	621	1 560	27
28		3.90 B	27	9.10		3.55 B	26	7.97	0.1	20.7	656 S	1 170	28
29		3.83 B	27	8.93					0.3	17.6	950 S	1 440	29
30		3.78 B	28	9.14					0.5	19.7	871 S	1 480	30
31		3.73 B	25	8.06					0.5	53.4	2 010 S	9 270	31
TOTAL		217.32		7 336.91		102.69		219.35	1	170.78		81 361.80	TOTAL
MEAN		7.01		237		3.67		7.83		37.8		2 620	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	0.5	78.9	1 850 S	12 600		5.50	132	62.7		16.8	1 180	1 710	1
2		70.8	1 050	6 420		5.33	128	58.9		18.7	911	1 470	2
3	0.5	43.0	910 S	3 380		5.14	116	51.5		13.9	243	292	3
4		47.5	1 100	4 510		4.92	107	45.5		10.2	126	111	4
5		34.5	712	2 120		4.73	102	41.7		9.32	270	217	5
6		23.9	382	789		4.61	98	39.0		18.6	1 500	2 410	6
7		17.5	248	375		4.53	111	43.4		24.0	1 040	2 160	7
8		17.1	305	451		5.24	267	121		19.9	645	1 110	8
9	0.6	18.7	334 S	540		5.59	169	81.6		15.6	455	613	9
10		22.4	707	1 370		5.17	116	51.8		10.1	340	297	10
11		21.6	374	698	13.0	4.89	96 S	40.6	18.0	7.32	266 S	168	11
12		21.8	401	755		4.65	86	34.6		6.30	219	119	12
13	0.6	23.4	887 S	1 790		4.44	82	31.5		5.67	189	92.6	13
14		25.2	1 320	2 870		4.35	92	34.6	18.0	5.29 A	168 S	76.8	14
15		20.8	720	1 290		4.15	89	31.9		5.20 E	149	66.9	15
16		17.0	416	611		4.08	83	29.3		5.10 E	850	375	16
17		17.7	327	500		4.04	82	28.6		5.60 E	731	354	17
18		21.3	736	1 350		3.93	85	28.9		18.0 E	438	681	18
19	1.1	18.3	530 S	838		3.86	93	31.0		15.0 E	322	417	19
20	1.0	14.7	288 S	366	21.0	4.10	163 S	57.7		12.0 E	268	278	20
21		16.9	444	648		4.06	204	71.6		11.0 E	259	246	21
22		16.6	321	460		3.89	141	47.4	17.0	13.5 E	1 080 S	1 260	22
23		12.7	219	240		3.91	121	40.9		17.5 E	1 110	1 680	23
24		10.2	188	166		3.98	119	40.9		15.2 A	520	683	24
25		8.68	176	132		4.04	123	42.9		7.64	413	273	25
26		7.58	163	107		4.08	175	61.7		7.92	888	608	26
27		6.97	151	90.9		4.67	519	209		9.29	551	442	27
28	9.0	6.37	149 S	82.0		23.5	2 360	4 790		7.17	518	321	28
29		5.99	146	75.6	20.0	36.7	2 410 S	7 640		12.2	1 280	1 350	29
30		5.69	137	67.4		23.7	837	1 710		9.77	771	651	30
31						15.2	419	550					31
TOTAL		673.78		45 691.9		220.98		16 150.2		353.79		20 532.3	TOTAL
MEAN		22.5		1 520		7.13		521		11.8		684	MEAN

ONTARIO

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC026

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		7.22	606	378		3.34	160	46.2	9.0	3.07	63 S	16.7	1
2		6.06	543	284	13.0	3.85	590 S	196		3.10	68	18.2	2
3	18.0	5.24	448 S	203		4.25	578	212		3.10	63	16.9	3
4	18.0	5.08	348 S	153		3.31	174	49.8		3.07	55	14.6	4
5		5.18	414	185	18.0	3.30 A	129 S	36.8		3.03	48	12.6	5
6		4.85	331	139		3.23 E	122	34.0		3.04	40	10.5	6
7		4.78	265	109		3.18 E	116	31.9		3.06	37	9.78	7
8		4.41	233	88.8		3.15 E	145	39.5		3.04	39	10.2	8
9		4.08	220	77.6		3.35 E	160	46.3		2.98	39	10.0	9
10		3.84	214	71.0		4.50 E	107	41.6		2.89	41	10.2	10
11		3.66	201	63.6		3.80 E	81	26.6		2.87	36	8.93	11
12		3.95	183	62.5	16.0	3.19 A	78 S	21.5		2.85	37	9.11	12
13	18.0	3.63	167 S	52.4		3.09	80	21.4		2.84	46	11.3	13
14	18.0	3.41	128 S	37.7		3.01	74	19.2		2.83 E	45	11.0	14
15		3.31	146	41.8		2.93	65	16.5		2.82 E	44	10.7	15
16		3.16	140	38.2		2.92	61	15.4		2.80 E	40	9.68	16
17	23.0	3.10	127 S	34.0		2.89	53	13.2		2.81 E	42	10.2	17
18		2.98	101	26.0	18.0	2.79	37 S	8.92		3.00 E	53	13.7	18
19		2.82	102	24.9		2.78	32	7.69		3.50 E	44	13.3	19
20		3.00	146	37.8		2.85	47	11.6		3.30 E	37	10.5	20
21		3.09	152	40.6		2.68	40	9.26		3.20 E	38	10.5	21
22		3.09	126	33.6		2.62	45	10.2	15.0	3.80 E	43 S	14.1	22
23	19.0	3.08	121 S	32.2		2.68	51	11.8		5.39	201	93.6	23
24		3.11	116	31.2		2.80	55	13.3	14.0	4.38	171 S	64.7	24
25		3.17	115	31.5		3.79	324	106		4.88	99	41.7	25
26		3.17	109	29.9		4.08	161	56.8		4.78	56	23.1	26
27	17.0	3.20	101 S	27.9		3.59	95	29.5		5.60	116	56.1	27
28		3.30 E	535	153		3.44	78	23.2		6.43	134	74.4	28
29	22.0	3.80 E	183 S	60.1		3.19	69	19.0	16.0	5.16	26 S	11.6	29
30		3.37	130	37.9		3.10	67	17.9		4.85	17	6.54	30
31		3.60	199	61.9		3.10	62	16.6					31
TOTAL		119.74		2 647.1		100.78		1 209.67		108.07		638.44	TOTAL
MEAN		3.86		85.4		3.25		39.0		3.60		21.1	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		4.11	16	5.68		2.59	45	10.1	1.3	19.7	507 S	863	1
2		3.83	14	4.63		7.89	308	210		18.8	420	537	2
3		3.65	15	4.73		8.91	230	177		13.2	260	297	3
4		3.60	23	7.15		8.88	236	181		15.0	304	394	4
5	13.0	3.44	19 S	5.65		9.20	260	207		17.9	204	315	5
6		3.31	18	5.15		7.40	200	128	0.1	44.0	863 S	3 280	6
7		3.42	39	11.5	1.5	6.68	180 S	104		43.5	1 170	4 400	7
8		3.99	86	29.6		6.12	166	87.8		29.1	547	1 380	8
9		3.91	68	23.0		5.72	162	80.1		19.1	370	611	9
10		3.59	46	14.3		5.73	162	80.2		14.0	285	345	10
11		3.56	43	13.2		6.77	208	122		11.4	232	229	11
12		3.54	31	9.48		12.4	364	390		9.42	199	162	12
13		3.46	31	9.27		13.8	237	283		7.96	217	149	13
14	12.0	3.50	46 S	13.9		11.4	161	159		7.50 B	214	139	14
15		3.50	45	13.6		8.90	133	102		7.24	189	118	15
16		3.50	40	12.1		7.01	[illegible]	72.1		18.3	738	1 170	16
17		3.44	37	11.0	3.0	6.09	110 S	57.9		25.4	796	1 750	17
18		3.41	37	10.9		5.67	102	50.0		18.4	402	639	18
19		3.38	34	9.93		5.37	92	42.7	0.1	13.3	255 S	293	19
20		3.40	38	11.2		6.03	272	142		11.9	196	202	20
21		3.65	63	19.9		21.4	1 230	2 270		10.9	170	160	21
22	7.5	3.49	31 S	9.35		35.1	1 450	4 400		9.32	151	122	22
23		3.40 E	27	7.93		27.5	321	763		9.19	240	191	23
24		3.40 E	25	7.34		25.3	441	964		26.1	1 140	2 570	24
25		3.40 E	25	7.34		21.4	272	503		48.9	2 610	11 000	25
26		3.39 E	25	7.32		15.7	216	293		71.6	1 980	12 200	26
27		3.39 E	25	7.32		11.9	199	205		64.7	1 800	10 100	27
28		3.40 E	22	6.46		9.95	182	156	0.1	45.1	1 550 S	6 040	28
29	3.5	3.41 E	21 S	6.19		16.4	551	781		38.4	1 270	4 210	29
30		3.46 E	24	7.17		22.4	824	1 590		27.5	981	2 330	30
31		3.50 E	25	7.56						18.7	697	1 130	31
TOTAL		109.43		319.85		359.61		14 610.9		731.53		67 326	TOTAL
MEAN		3.53		10.3		12.0		487		23.6		2 170	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	700	
MAXIMUM DAILY	2 610	ON DEC 25
MINIMUM DAILY	14	ON OCT 02

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	707	
MAXIMUM DAILY	12 600	ON APR 01
MINIMUM DAILY	4.63	ON OCT 02

TOTAL SUSPENDED SEDIMENT LOAD 258 040.42 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 42 42 30 N
LONG 80 50 20 W
DRAINAGE AREA 676 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC026

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
JAN 04	16:15	13.2 H	0.1	1 340 K	4	11	21	33	57	85	97	100				BNW
MAR 31	16:30	53.4 H	0.5	2 820 K	9	13	28	43	52	65	78	90	95	98		BNW
APR 01	11:45	78.9 H	0.5	1 610 K	10	15	26	33	41	52	70	87	94	98		BNW
DEC 06	16:20	44.0 H	0.1	1 190 K	21	29	38	46	58	71	84	91	96	98		BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA036

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.037 B	7	0.02		0.003 B	8	0		0.002 B	4	0	1
2		0.037 B	7	0.02		0.002 B	7	0		0.002 B	4	0	2
3		0.037 B	7	0.02		0.002 B	8	0		0.002 B	4	0	3
4		0.072 B	13	0.08	0.1	0.002 B	8 S	0		0.002 B	4	0	4
5		0.177 B	28	0.43		0.002 B	8	0		0.002 B	5	0	5
6	0.1	0.141 B	6 S	0.07		0.002 B	7	0		0.002 B	5	0	6
7		0.088 B	6	0.05		0.002 B	7	0		0.002 B	5	0	7
8		0.063 B	6	0.03		0.002 B	7	0		0.002 B	5	0	8
9		0.038 B	6	0.02		0.002 B	7	0		0.002 B	5	0	9
10		0.026 B	6	0.01		0.002 B	7	0		0.002 B	5	0	10
11		0.018 B	6	0.01		0.002 B	7	0		0.003 B	10	0	11
12		0.014 B	6	0.01		0.002 B	7	0		0.004 B	20	0.01	12
13		0.008 B	6	0		0.002 B	6	0		0.014 B	78	0.09	13
14		0.006 B	6	0		0.002 B	4	0		0.032 B	80	0.22	14
15		0.007 B	6	0		0.002 B	4	0		0.072 B	33	0.21	15
16		0.006 B	6	0		0.002 B	4	0		0.350 B	31	0.94	16
17		0.004 B	6	0		0.002 B	4	0		0.310 B	32	0.86	17
18		0.004 B	5	0		0.002 B	4	0		0.320 B	30	0.83	18
19		0.004 B	5	0		0.002 B	4	0		0.340 B	29	0.85	19
20		0.004 B	5	0		0.002 B	4	0		0.365 B	31	0.98	20
21		0.004 B	6	0		0.002 B	4	0		0.390 B	33	1.11	21
22		0.004 B	7	0		0.002 B	4	0		0.420 B	34	1.23	22
23		0.005 B	6	0		0.002 B	4	0		0.660 B	49	2.79	23
24		0.005 B	6	0		0.002 B	4	0		1.00 B	90	7.78	24
25		0.004 B	6	0		0.002 B	4	0		1.50 B	67	8.68	25
26		0.003 B	7	0		0.002 B	4	0		1.20 B	47	4.87	26
27		0.003 B	8	0		0.002 B	4	0		0.820 B	38	2.69	27
28		0.004 B	9	0		0.002 B	4	0		0.530 B	39	1.79	28
29		0.003 B	9	0						0.410 B	44	1.56	29
30		0.003 B	8	0						1.90 B	264	43.3	30
31		0.003 B	8	0					0.1	12.0 B	447 S	463	31
TOTAL		0.832		0.77		0.057		0		22.660		543.79	TOTAL
MEAN		0.027		0.02		0.002		0		0.731		17.5	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		2.55 B	176 S	38.8		0.118	35	0.36		0.086	38	0.28	1
2		1.95 B	125	21.1		0.090	31	0.24		0.082	37	0.26	2
3		3.45 B	495 S	148		0.073	30 S	0.19		0.055	25	0.12	3
4		0.830 B	373	26.7		0.058	27	0.14		0.038	15	0.05	4
5		0.760 B	144	9.46		0.051	24	0.11		0.051	25	0.11	5
6		0.740 B	50	3.20		0.044	21	0.08		0.230	157	3.12	6
7		0.720 B	22	1.37		0.041	16	0.06		0.161	63 S	0.88	7
8		0.990 B	25	2.14		0.039	10	0.03		0.112	34	0.33	8
9		1.32 B	84	9.58		0.031	6	0.02	19.5	0.083	18 S	0.13	9
10		1.13	43	4.20	13.0	0.026	7 S	0.02		0.062	15	0.08	10
11		0.753	42	2.73		0.026	7	0.02		0.040	14	0.05	11
12		1.10	160	15.2		0.023	7	0.01		0.026	14	0.03	12
13		1.83	294	46.5		0.020	6	0.01		0.020	13	0.02	13
14		1.53	261 S	34.5		0.018	5 S	0.01		0.015	13	0.02	14
15		1.61	262	36.4		0.017	5	0.01		0.015	18	0.02	15
16	6.0	2.27	564 S	111		0.018	6	0.01		0.027	35	0.08	16
17		4.33	1 710 S	640		0.017	5	0.01		0.024	26	0.05	17
18		1.63	331	46.6		0.014	4	0		0.018	26	0.04	18
19		0.872	60 S	4.52		0.012	7	0.01		0.316	134	3.66	19
20		1.43	169	20.9		0.024	23	0.05		0.427	106	3.91	20
21		1.09	69	6.50		0.018	17	0.03		1.41	125 S	15.2	21
22		0.563	28	1.36		0.014	15	0.02		0.578	28	1.40	22
23		0.435	23	0.86		0.014	11	0.01		0.294	21	0.53	23
24		0.348	20	0.60		0.013	15	0.02		0.162	19	0.27	24
25		0.269	17	0.40		0.010	23 S	0.02		0.106	17	0.16	25
26		0.228	21	0.41		0.010	29	0.03		0.086	16	0.12	26
27		0.398	98	3.37		0.007	29	0.02		0.065	13	0.07	27
28		0.271	55 S	1.29		0.286	182	4.50		0.048	12	0.05	28
29		0.180	47	0.73		0.280	35	0.85		0.052	23	0.10	29
30		0.146	41	0.52		0.152	26	0.34		0.056	26	0.13	30
31						0.094	27	0.22					31
TOTAL		35.723		1 238.94		1.658		7.45		4.745		31.27	TOTAL
MEAN		1.19		41.3		0.053		0.24		0.158		1.04	MEAN

CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA036

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.030	21	0.05		0.001	17	0		0.005	22	0.01	1
2		0.020	21	0.04		0.002	25	0		0.010	33	0.03	2
3		0.015	22	0.03		0.002	21	0		0.005	29	0.01	3
4		0.013	24	0.03		0.151	75 S	0.98		0.003	29	0.01	4
5	22.0	0.009	25 S	0.02	19.0	0.075	26 S	0.17		0.002	28	0	5
6		0.006	19	0.01		0.024	22	0.05		0.002	26	0	6
7		0.004	16 S	0.01		0.013	20	0.02		0.002	23	0	7
8		0.003	14	0		0.010	18	0.02	15.0	0.002	25 S	0	8
9		0.002	13	0		0.013	22	0.02		0.002	25	0	9
10		0.002	12	0		0.007	18	0.01		0.002	23	0	10
11		0.001	13	0		0.005	15	0.01		0.001	20	0	11
12		0.001	12	0		0.003	14	0		0.001	20	0	12
13		0.001	12	0		0.002	14	0		0.002	28	0	13
14		0.001	13	0		0.002	14	0		0.001	25	0	14
15		0.001	13	0		0.002	13	0		0.002	21	0	15
16		0.001	13	0		0.002	15	0		0.001	17	0	16
17		0.001	19	0		0.001	15	0		0.002	21	0	17
18		0.002	33	0.01		0.001	11	0		0.011	67	0.06	18
19	21.0	0.002	34 S	0.01		0.001	12	0		0.010	22	0.02	19
20		0.002	32	0.01		0.001	11	0		0.009	19	0.01	20
21		0.001	35 S	0		0.001	10	0		0.006	17	0.01	21
22		0.001	30	0		0.001	17	0		0.005	17	0.01	22
23		0.001	26	0		0.001	15	0		0.012	27	0.03	23
24		0.001	26	0		0.001	12	0		0.016	24	0.03	24
25		0.001	26	0		0.056	89	0.43		0.180	109	1.70	25
26		0.001	23	0		0.053	34	0.16		0.127	32	0.35	26
27		0.001	17	0		0.019	29	0.05	13.0	0.340	115 S	3.38	27
28		0.002	26	0		0.010	26	0.02		0.444	128 S	4.91	28
29		0.002	22	0		0.006	23	0.01		0.211	53	0.97	29
30		0.002	22	0		0.004	20	0.01		0.132	36	0.41	30
31		0.001	22	0		0.004	17	0.01					31
TOTAL		0.131		0.22		0.474		1.97		1.548		11.95	TOTAL
MEAN		0.004		0.01		0.015		0.06		0.051		0.40	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.088	28	0.21		0.123	72	0.77		0.911	15	1.18	1
2		0.059	27	0.14		1.36	108 S	12.7		0.520	14	0.63	2
3		0.042	26	0.09		1.83	79 S	12.5		0.428	22	0.81	3
4		0.028	25	0.06		1.24	64	6.86		1.58	78 S	10.6	4
5		0.023	24	0.05		0.988	39	3.33		1.60	124	17.1	5
6		0.020	23	0.04		0.534	21	0.97		3.06	208 S	55.0	6
7		0.026	30	0.07		0.448	39	1.51		0.860	17	1.26	7
8		0.037	34	0.11		0.522	56	2.53		0.384	15	0.50	8
9		0.032	29	0.08	5.0	0.277	14 S	0.34		0.222	13	0.25	9
10		0.023	27	0.05		0.155	10	0.13		0.161	12	0.17	10
11		0.022	25	0.05		0.374	92	2.97		0.120	11	0.11	11
12		0.023	23	0.05		2.12	268 S	49.1		0.096	10	0.08	12
13		0.021	24	0.04		1.32	41	4.68		0.086	9	0.07	13
14		0.020	24	0.04		0.614	31	1.64	0.1	0.087	8 S	0.06	14
15	12.0	0.137	120 S	1.42		0.312	27	0.73		0.091	16	0.13	15
16		0.233	100	2.01		0.161	23	0.32		1.35	115	13.4	16
17		0.082	39	0.28		0.091	19	0.15		0.600 B	20	1.04	17
18		0.050	27	0.12		0.080	14	0.10		0.332	18	0.52	18
19		0.034	22	0.06		0.090	11	0.09		0.200	16	0.28	19
20		0.031	28	0.07		0.373	54 S	1.74		0.152 B	15	0.20	20
21		0.028	30	0.07		3.26	413 S	116		0.106	13 S	0.12	21
22		0.022	23	0.04		1.42	79	9.69		0.091	11	0.09	22
23		0.017	23	0.03		0.943	53	4.32		0.142	12	0.15	23
24		0.015	22	0.03	3.0	1.73	46 S	6.88		2.31	100 S	20.0	24
25		0.013	21	0.02		0.575	16	0.79		5.51	206 S	98.1	25
26		0.011	20	0.02		0.228	15	0.30		2.26	14	2.73	26
27		0.010	18	0.02		0.074	14	0.09		0.667	11	0.63	27
28		0.009	18	0.01		0.040	15	0.05		1.22	38 S	4.01	28
29		0.009	17	0.01		1.30	124	13.9		0.704	21	1.28	29
30		0.008	16	0.01		1.85	29 S	4.64		0.410 B	17	0.60	30
31		0.009	20	0.02						0.306	16	0.42	31
TOTAL		1.182		5.32		24.432		259.82		26.566		231.52	TOTAL
MEAN		0.038		0.17		0.814		8.66		0.857		7.47	MEAN

SUMMARY FOR THE YEAR 1982

TOTAL SUSPENDED SEDIMENT LOAD 2 333.02 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	225	
MAXIMUM DAILY	1 710	ON APR 17
MINIMUM DAILY	4	ON FEB 14

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	6.39	
MAXIMUM DAILY	640	ON APR 17
MINIMUM DAILY	0	ON JAN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 40 12 N
LONG 80 35 48 W
DRAINAGE AREA 17.9 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		3.80 B	8	2.63	0.1	2.90 B	1 S	0.25	0.1	3.70 B	7 S	2.24	1
2		3.72 B	8	2.57		2.82 B	2	0.49		3.60 B	7	2.18	2
3		3.70 B	24	7.67		2.80 B	1	0.24	0.1	3.55 B	8 S	2.45	3
4	0.1	4.80 B	261 S	108		2.72 B	1	0.24		3.50 B	8	2.42	4
5		4.40 B	47	17.9	0.1	2.68 B	2 S	0.46		3.42 B	8	2.36	5
6	0.1	4.20 B	10 S	3.63		2.62 B	4	0.91		3.40 B	8	2.35	6
7		4.00 B	4	1.38		2.58 B	4	0.89		3.30 B	8	2.28	7
8	0.1	3.80 B	3 S	0.98	0.1	2.52 B	4 S	0.87	0.1	3.25 B	8 S	2.25	8
9		3.60 B	1	0.31		2.50 B	5	1.08	0.1	3.21 B	7 S	1.94	9
10		3.40 B	1	0.29	0.1	2.48 B	4 S	0.86	0.1	3.15 B	9 S	2.45	10
11	0.1	3.60 B	1 S	0.31		2.42 B	4	0.84		8.00 B	62	42.9	11
12		3.75 B	1	0.32	0.1	2.40 B	4 S	.83	0.1	15.0 B	72 S	93.3	12
13	0.1	3.90 B	1 S	0.34		2.32 B	4	0.80		30.0 B	422	1 090	13
14	0.1	4.02 B	1 S	0.35		2.30 B	4	0.79		51.8	377	1 690	14
15	0.1	3.90 B	1 S	0.34	0.1	4.90 B	8 S	3.39	0.1	43.4	171 S	641	15
16		3.80 B	1	0.33	0.1	4.77 B	12 S	4.95	0.1	32.2	53 S	147	16
17		3.74 B	1	0.32	0.1	4.75 B	10 S	4.10	0.1	35.5	65 S	199	17
18	0.1	3.70 B	2 S	0.64		4.70 B	8	3.25	0.1	27.6	55 S	131	18
19		3.60 B	1	0.31	0.1	4.58 B	10 S	3.96	0.1	27.4	66 S	156	19
20	0.1	3.50 B	1 S	0.30		4.42 B	9	3.44		32.2	71	198	20
21		3.44 B	1	0.30		4.38 B	8	3.03		28.3	50	122	21
22	0.1	3.40 B	1 S	0.29	0.1	4.24 B	7 S	2.56	0.1	29.6	90 S	230	22
23		3.60 B	1	0.31		4.20 B	8	2.90		37.9	128	419	23
24		3.50 B	1	0.30	0.1	4.16 B	9 S	3.23	0.1	42.7	228 S	841	24
25		3.35 B	1	0.29	0.1	4.08 B	7 S	2.47		33.9	205	600	25
26	0.1	3.20 B	1 S	0.28	0.1	4.00 B	9 S	3.11	0.1	23.3	105 S	211	26
27	0.1	3.10 B	1 S	0.27		3.95 B	8	2.73		18.6	73	92.1	27
28		3.20 B	1	0.28		3.85 B	7	2.33		11.8	64	65.2	28
29	0.1	3.10 B	1 S	0.27					0.1	14.3	50 S	61.8	29
30		3.05 B	2	0.53					0.1	20.3	197 S	346	30
31		3.00 B	2	0.52					1.5	103	1 770 S	15 800	31
TOTAL		112.87		152.56		97.04		55.00		696.88		23 199.22	TOTAL
MEAN		3.64		4.92		3.47		1.96		22.5		748	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		116	522	5 230		7.94	38	26.1					
2	0.1	67.7	199 S	1 160		7.60	35	23.0	13.5	7.72	123	82.0	1
3		75.1	241	1 560	10.0	7.23	36 S	22.5		6.93	83 S	49.7	2
4		58.5	121	612		7.02	37	22.4	11.5	6.07	43	22.6	3
5	0.1	34.3	76 S	225	10.0	6.58	37 S	21.0		5.65	26 S	12.7	4
6		27.6	49	117		6.43	34	18.9		7.72	87	58.0	5
7	0.1	19.1	34 S	56.1	11.5	6.31	33 S	18.0	12.0	19.2	192	319	6
8		18.0	32	49.8		8.00	75	51.8		16.3	27 S	38.0	7
9		17.5	30	45.4		8.24	36	25.6	14.0	10.9	23	21.7	8
10		18.2	27	42.5	11.0	7.36	18 S	11.4		7.99	42 S	29.0	9
11		18.7	24	38.8		6.73	23	13.4		6.80	38	22.3	10
12	3.0	18.2	22 S	34.6	13.0	6.31	66 S	36.0	14.0	6.20	25 S	13.4	11
13		22.5	64	124		6.02	40	20.8		5.83	23	11.6	12
14	2.0	25.1	68 S	147	14.0	5.90	26 S	13.3		5.62	20	9.71	13
15		22.9	45	89.0		5.72	26	12.8	14.0	7.98	41 S	28.3	14
16	5.0	22.6	48 S	93.7		5.56	24	11.5	15.0	7.77	32 S	21.5	15
17		39.2	207	701	15.0	5.57	33 S	15.9		11.0	61	58.0	16
18		39.1	116	392		5.77	28	14.0	13.0	10.2	39 S	34.4	17
19	4.0	25.6	48 S	106	15.0	5.43	14 S	6.57	19.0	7.54	19 S	12.4	18
20		25.8	90	201		6.69	13	7.51		8.83	44	33.6	19
21	4.0	30.5	63 S	166		6.01	14	7.27	14.0	12.0	58	60.1	20
22		21.4	21	38.8		5.55	15	7.19		17.1	112 S	165	21
23	5.0	15.7	14 S	19.0		5.69	15	7.37		15.9	49	67.3	22
24		13.4	10	11.6		5.74	16	7.93	12.5	12.5	34 S	36.7	23
25		11.9	6	6.17	12.0	5.65	15 S	7.32		9.08	24	18.8	24
26	10.0	11.0	3 S	2.85	12.0	5.63	15 S	7.30	15.0	7.36	16 S	10.2	25
27		10.6	4	3.66		5.40	15	7.00		7.95	27	18.5	26
28	7.5	10.1	3 S	2.62	15.0	6.43	30 S	16.7	16.0	7.50	20	13.0	27
29	10.0	8.89	9 S	6.91		7.91	68	46.5		6.94	16 S	9.59	28
30	9.0	8.30	34 S	24.4		7.70	48	31.9		90.1	301	2 340	29
31					16.0	7.20	31 S	19.3	16.0	20.9	71 S	128	30
TOTAL		853.49		11 306.91		201.32		558.26		373.58		3 745.10	31 TOTAL
MEAN		28.4		377		6.49		18.0		12.5		125	MEAN

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		10.2	27	23.8		4.59	11	4.36	14.0	4.36	6 S	2.26	1
2		7.53	8	5.20		5.33	72	33.2		4.61	16	6.37	2
3		6.56	6	3.40	17.0	4.09	20 S	8.45		4.58	9	3.56	3
4		6.26	3	1.62	17.0	6.44	124 S	69.0		4.40	9	3.42	4
5	16.0	6.01	4 S	2.08		5.92	18	9.21		4.29	8	2.97	5
6		5.80	3	1.50	18.0	5.30	11 S	5.04		4.13	6	2.14	6
7	22.0	5.49	3 S	1.42		4.83	10	4.17		4.08	3	1.06	7
8		5.32	4	1.84		4.93	15	6.39		4.01	4	1.39	8
9	18.0	5.10	4 S	1.76	18.0	5.95	135 S	69.4		3.95	5	1.71	9
10		4.88	6	2.53		5.04	26	11.3		3.84	6	1.99	10
11		4.82	7	2.92	15.0	4.77	9 S	3.71		3.83	7	2.32	11
12	23.0	4.73	10 S	4.09		4.52	7	2.73		3.75	6	1.94	12
13	23.5	4.75	8 S	3.28	15.0	4.42	8 S	3.06	18.5	3.88	5 S	1.68	13
14		4.71	4	1.63		4.53	11	4.31		8.87	108	82.8	14
15		4.55	4	1.57		4.33	8	2.99	18.0	7.22	104 S	64.9	15
16	22.5	4.44	4 S	1.53	17.5	4.21	8 S	2.91		5.88	32	16.3	16
17		4.55	14	5.50		4.17	7	2.52	14.0	4.90	8 S	3.39	17
18		5.56	30	14.4	17.0	4.09	6 S	2.12		6.46	34	19.0	18
19	22.5	6.75	25 S	14.6		4.17	7	2.52		5.94	13	6.67	19
20		6.40	10	5.53	18.5	5.39	13 S	6.05	13.0	5.66	10 S	4.89	20
21		5.40	9	4.20		6.11	18	9.50	13.0	4.94	6 S	2.56	21
22		4.78	7	2.89		5.30	12	5.50	12.5	6.19	20 S	10.7	22
23		4.47	6	2.32		4.94	10	4.27		10.8	121	113	23
24		4.20	5	1.81		4.81	9	3.74	11.5	8.29	21 S	15.0	24
25		4.27	4	1.48		14.8	199	254		8.60	21	15.6	25
26		4.26	3	1.10		8.89	50	38.4		7.54	16	10.4	26
27	21.0	4.25	3 S	1.10		6.86	21	12.4	12.5	15.7	94 S	128	27
28	18.0	6.14	52 S	27.6		5.43	18	6.57		12.8	54	59.7	28
29		6.11	25	13.2		4.59	11	4.36	13.0	8.69	26 S	19.5	29
30	18.0	5.24	9 S	4.07	12.5	4.50	8 S	3.11		6.90	13 S	7.75	30
31		4.83	10	4.17		4.47	6	2.32					31
TOTAL		168.36		164.14		168.52		597.61		189.09		612.97	TOTAL
MEAN		5.43		5.29		5.44		19.3		6.30		20.4	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	13.0	6.02	7 S	3.64	9.0	5.72	13 S	6.42	3.0	14.4	27 S	33.6	1
2		5.54	4	1.91		12.2	100	105		11.5	22	21.9	2
3		5.16	4	1.78	10.0	18.7	156 S	252	5.0	11.0	25 S	23.8	3
4	10.0	5.15	3 S	1.33		30.0	220	570		19.3	124	207	4
5		5.01	3	1.30	5.0	24.1	85 S	177		16.8	88	128	5
6	10.5	4.77	3 S	1.24		13.5	17	19.8	6.0	45.5	471 S	1 850	6
7		8.05	72 S	50.1		9.73	11	9.25		28.0	72	174	7
8	11.0	9.74	73 S	61.4	5.0	8.26	11 S	7.85	1.5	16.8	31 S	45.0	8
9		6.77	12	7.02		7.57	8	5.23		12.3	18	19.1	9
10		5.95	9	4.63	3.0	7.04	6 S	3.65		8.70 B	12	9.02	10
11		6.47	19	10.6		7.13	7	4.31		7.00 B	10	6.05	11
12	11.0	6.10	9 S	4.74	7.5	8.56	28 S	20.7		6.10 B	7	3.69	12
13	10.0	5.71	4 S	1.97		10.5	44	39.9	0.1	5.90 B	5 S	2.55	13
14		5.38	3	1.39		9.07	18	14.1		5.90 B	12	6.12	14
15	10.0	5.51	3 S	1.43	1.0	7.68	7 S	4.64	0.1	6.20 B	27 S	14.5	15
16		6.03	3	1.56		6.94	9	5.40		21.7	107	201	16
17		5.75	2	0.99	0.1	6.61	9 S	5.14	0.1	12.0 B	33 S	34.2	17
18	5.5	5.49	2 S	0.95		6.27	7	3.79		10.5 B	29	26.1	18
19	5.0	5.20	2 S	0.90	1.0	6.17	4 S	2.13		9.60 B	27	22.4	19
20	9.0	5.22	2 S	0.90		6.15	3	1.59		8.80 B	21	16.0	20
21		5.23	2	0.90		10.1	32	27.9	0.1	8.40 B	17 S	12.3	21
22	5.5	5.11	2 S	0.88	2.0	13.7	41 S	48.5	0.1	8.28	12 S	8.58	22
23		5.02	2	0.87		11.2	28	27.1	0.1	8.38	13 S	9.41	23
24		4.88	3	1.26	4.0	22.1	153 S	292	1.0	23.0	98 S	195	24
25		4.82	2	0.83		14.8	32	40.9		78.8	492	3 350	25
26	4.0	4.80	1 S	0.41	0.5	10.5	23 S	20.9		65.3	201	1 130	26
27	4.0	4.78	2 S	0.83		8.54	23	17.0		31.8	39	107	27
28		4.74	2	0.82		8.00	22	15.2	2.0	28.0	44 S	106	28
29	5.0	4.70	3 S	1.22	1.0	17.0	77 S	113		22.8	32	63.0	29
30		4.67	2	0.81		19.8	59	101		15.2	16	21.0	30
31		4.74	2	0.82						10.0 B	12	10.4	31
TOTAL		172.51		169.43		347.64		1 961.40		577.96		7 856.92	TOTAL
MEAN		5.56		5.47		11.6		65.4		18.6		253	MEAN

SUMMARY FOR THE YEAR 1982

TOTAL SUSPENDED SEDIMENT LOAD 50 379.52 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	147	
MAXIMUM DAILY	1 770	ON MAR 31
MINIMUM DAILY	1	ON JAN 09

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	138	
MAXIMUM DAILY	15 800	ON MAR 31
MINIMUM DAILY	0.24	ON FEB 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 32 34 N
LONG 79 39 26 W
DRAINAGE AREA 795 km^2
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAR 31	08:30	103 H	0.1	2 460 K	12	18	27	43	61	85	98	100				BNW
MAR 31	12:00	103 H	3.0	1 310 K	15	20	37	57	74	91	97	99	100			BNW
DEC 06	08:30	45.5 H	6.0	632 K	25	34	56	80	93	97	98	100				BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

EAST CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA035

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.113 B	31	0.30		0.071 B	10	0.06		0.063 B	10	0.05	1
2		0.111 B	31	0.30		0.069 B	10	0.06		0.063 B	10	0.05	2
3		0.110 B	31	0.29		0.068 B	11	0.06		0.063 B	10	0.05	3
4		0.170 B	60	0.88	0.1	0.067 B	11 S	0.06		0.063 B	10	0.05	4
5		0.460 B	187	7.43		0.066 B	10	0.06		0.063 B	11	0.06	5
6	0.1	0.373 B	89 S	1.58		0.065 B	10	0.06		0.062 B	12	0.06	6
7		0.290 B	35	0.88		0.064 B	10	0.06		0.062 B	12	0.06	7
8		0.230 B	33	0.66		0.063 B	11	0.06		0.062 B	12	0.06	8
9		0.200 B	30	0.52		0.062 B	11	0.06		0.063 B	11	0.06	9
10		0.172 B	28	0.42		0.061 B	11	0.06		0.067 B	10	0.06	10
11		0.156 B	26	0.35		0.060 B	11	0.06		0.080 B	18	0.12	11
12		0.142 B	24	0.29		0.060 B	10	0.05		0.098 B	19	0.16	12
13		0.130 B	22	0.25		0.059 B	10	0.05	0.1	0.127 B	57 S	0.63	13
14		0.125 B	20	0.22		0.060 B	11	0.06		0.172 B	42	0.62	14
15		0.140 B	25	0.30		0.064 B	14	0.08		0.240 B	31	0.64	15
16		0.108 B	19	0.18		0.068 B	23	0.14		0.440 B	49 S	1.86	16
17		0.100 B	18	0.16		0.067 B	14	0.08		0.395 B	30 S	1.02	17
18		0.095 B	17	0.14		0.064 B	12	0.07		0.420 B	15 S	0.54	18
19		0.092 B	16	0.13		0.062 B	11	0.06		0.438 B	10 S	0.38	19
20		0.087 B	16	0.12		0.062 B	11	0.06		0.450 B	7 S	0.27	20
21		0.084 B	14	0.10		0.061 B	10	0.05		0.480 B	9	0.37	21
22		0.082 B	12	0.09		0.066 B	11	0.06		0.532 B	12 S	0.55	22
23		0.091 B	16	0.13		0.065 B	13	0.07		0.650 B	34 S	1.91	23
24		0.100 B	20	0.17		0.065 B	12	0.07		1.19 B	70 S	7.20	24
25		0.086 B	18	0.13		0.064 B	12	0.07		1.60 B	38	5.25	25
26		0.082 B	17	0.12		0.064 B	12	0.07		1.08 B	15	1.40	26
27		0.078 B	16	0.11		0.063 B	11	0.06		0.770 B	14	0.93	27
28		0.076 B	16	0.11		0.063 B	10	0.05		0.594 B	15	0.77	28
29		0.084 B	13	0.09					2.0	0.503 B	33 S	1.43	29
30		0.076 B	12	0.08					3.0	1.60 B	200 S	27.6	30
31		0.073 B	11	0.07					2.5	13.3	607 S	698	31
TOTAL		4.316		16.60		1.793		1.81		25.790		752.21	TOTAL
MEAN		0.139		0.54		0.064		0.06		0.832		24.3	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	1.0	4.07	157 S	55.2		0.201	5	0.09		0.178	11	0.17	1
2	1.0	2.09	159 S	28.7		0.183	5	0.08		0.145	7	0.09	2
3	1.0	3.90	347 S	117		0.178	5	0.08		0.121	5	0.05	3
4		1.04 B	65	5.84		0.172	5	0.07		0.114	6	0.06	4
5		0.860 B	35	2.60		0.171	4	0.06		0.210	26	0.47	5
6		0.650 B	33	1.85		0.163	4	0.06		0.278	19	0.46	6
7		0.590 B	29	1.48		0.157	3	0.04		0.188	12	0.19	7
8		0.710 B	63	3.86	13.0	0.167	3 S	0.04		0.162	11	0.15	8
9		0.953	91	7.49		0.155	2	0.03	19.0	0.144	11 S	0.14	9
10	1.0	0.735	60 S	3.81	13.0	0.142	2 S	0.02		0.127	11	0.12	10
11		0.583	37	1.86		0.131	3	0.03		0.118	11	0.11	11
12	2.0	0.936	99 S	8.01		0.126	4	0.04		0.107	11	0.10	12
13	2.3	1.70	233 S	34.2		0.126	5	0.05		0.102	11	0.10	13
14	3.0	1.23	102 S	10.8		0.126	5	0.05		0.098	11	0.09	14
15	3.5	1.29	41 S	4.57	16.0	0.118	4 S	0.04		0.114	23	0.23	15
16	9.0	1.89	99 S	16.2		0.123	4	0.04		0.131	22	0.25	16
17	6.0	3.58	208 S	64.3		0.120	4	0.04		0.110	12	0.11	17
18		1.35	54	6.30		0.107	5	0.05		0.106	14	0.13	18
19		0.807	15	1.05		0.108	9	0.08	15.0	0.385	55 S	1.83	19
20	5.5	1.55	139 S	18.6		0.201	33	0.57		0.245	34	0.72	20
21		1.05	30	2.72		0.122	12	0.13	13.0	0.936	178 S	14.4	21
22		0.543	15	0.70	12.0	0.118	10 S	0.10		0.323	32	0.89	22
23		0.451	13	0.51		0.118	9	0.09		0.206	18	0.32	23
24	13.0	0.389	10 S	0.34		0.112	6	0.06		0.152	15	0.20	24
25		0.322	9	0.25		0.110	5	0.05		0.139	12	0.14	25
26		0.316	21	0.57		0.103	4	0.04	18.0	0.157	32 S	0.43	26
27	5.0	0.404	16 S	0.56		0.113	10	0.10		0.134	12	0.14	27
28		0.268	8	0.19		0.502	98	4.25		0.121	10	0.10	28
29		0.229	7	0.14		0.277	32	0.77		0.133	12	0.14	29
30		0.213	6	0.11		0.196	7	0.12		0.116	8	0.08	30
31						0.158	5	0.07					31
TOTAL		38.699		399.81		4.902		7.38		5.600		22.41	TOTAL
MEAN		1.16		13.3		0.158		0.24		0.187		0.75	MEAN

ONTARIO

EAST CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA035

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.100	11	0.10		0.090	9	0.07		0.137	20	0.24	1
2		0.093	9	0.07		0.116	21	0.21		0.158	11	0.15	2
3	19.0	0.093	9 S	0.07		0.103	12	0.11		0.150	13	0.17	3
4		0.092	8	0.06	20.0	0.522	68 S	3.07		0.124	8	0.09	4
5	21.0	0.094	9 S	0.07	20.0	0.141	7 S	0.09		0.117	9	0.09	5
6		0.089	9	0.07		0.119	6	0.06		0.116	10	0.10	6
7		0.085	8	0.06		0.107	7	0.06		0.114	10	0.10	7
8		0.081	7	0.05		0.107	9	0.08	15.0	0.113	10 S	0.10	8
9		0.081	5	0.03		0.119	9	0.09		0.115	13	0.13	9
10		0.082	6	0.04		0.105	7	0.06		0.127	23	0.25	10
11		0.090	11	0.09		0.099	7	0.06		0.108	15	0.13	11
12		0.096	10	0.08		0.096	6	0.05		0.107	13	0.12	12
13		0.084	6	0.04		0.093	6	0.05		0.108	12	0.11	13
14		0.082	5	0.04		0.093	5	0.04		0.132	18	0.21	14
15		0.078	5	0.03		0.093	5	0.04		0.143	11	0.14	15
16		0.080	6	0.04		0.092	6	0.05		0.136	9	0.11	16
17	21.0	0.105	9 S	0.08		0.089	6	0.05		0.118	9	0.09	17
18		0.162	17	0.24		0.089	6	0.05		0.391	53	1.79	18
19		0.148	18	0.23		0.092	6	0.05		0.164	15	0.21	19
20		0.099	12	0.10		0.097	5	0.04		0.157	12	0.16	20
21		0.092	11	0.09		0.096	6	0.05		0.145	10	0.13	21
22		0.086	11	0.08		0.101	11	0.10		0.165	12	0.17	22
23		0.083	10	0.07		0.119	10	0.10	14.0	0.286	11 S	0.27	23
24	23.0	0.078	10 S	0.07		0.104	9	0.08		0.221	7	0.13	24
25		0.078	10	0.07	14.0	0.465	43 S	1.73	12.0	0.592	13 S	0.66	25
26		0.079	11	0.08		0.178	14	0.22		0.352	7	0.21	26
27		0.088	16	0.12		0.162	13	0.16	12.0	0.578	19 S	0.95	27
28		0.164	33	0.47		0.134	13	0.15		0.617	10	0.53	28
29		0.101	11	0.10		0.109	11	0.10		0.336	6	0.17	29
30		0.084	11	0.08		0.112	8	0.08		0.276	5	0.12	30
31		0.097	10	0.08		0.113	8	0.08					31
TOTAL		2.944		2.90		4.135		7.23		6.399		7.83	TOTAL
MEAN		0.095		0.09		0.133		0.23		0.213		0.26	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.257	12	0.27		0.250 E	4	0.09	6.0	0.772	11 S	0.73	1
2		0.193	10	0.17	12.0	0.800 E	83 S	5.74		0.498	11	0.47	2
3		0.189	9	0.15	11.0	1.20 E	34 S	3.53		0.510	14	0.62	3
4		0.175	9	0.14		0.900 E	19	1.48		1.30	23	2.58	4
5		0.162	7	0.10		0.700 E	13	0.79		1.58	56	7.69	5
6		0.156	5	0.07		0.540 E	7	0.33	8.0	2.56	76 S	16.8	6
7		0.207	20	0.36		0.400 E	7	0.24	6.0	0.721	14 S	0.87	7
8		0.220	7	0.13		0.480 E	14	0.58		0.463	13	0.52	8
9	13.0	0.184	2 S	0.03		0.300 E	6	0.16		0.401 B	12	0.42	9
10		0.157	3	0.04		0.215	6	0.11		0.370 B	12	0.38	10
11		0.196	13	0.22		0.370	38	1.21		0.293	12	0.30	11
12		0.167	7	0.10	9.0	1.52	103 S	13.5		0.220 B	12	0.23	12
13		0.166	5	0.07		0.902	18	1.40		0.200 B	12	0.21	13
14		0.168	5	0.07		0.523	9	0.41	0.1	0.187 B	12 S	0.19	14
15	12.0	0.268	9 S	0.21		0.373	9	0.29		0.248 B	14	0.30	15
16		0.182	12	0.19		0.275	10	0.24	7.0	1.22	69 S	7.27	16
17		0.144	11	0.14		0.238	10	0.21		0.563 B	18	0.88	17
18		0.144	8	0.10		0.234	10	0.20	7.0	0.438 B	32 S	1.21	18
19		0.142	7	0.09		0.213	9	0.17		0.307 B	24	0.64	19
20		0.154	10	0.13	9.0	0.411	16 S	0.57		0.274	19	0.45	20
21		0.153	4	0.05		2.71	144	33.7		0.238	18	0.37	21
22		0.144	3	0.04		0.974	14	1.18		0.222	17	0.33	22
23		0.132	3	0.03		0.905	25	1.95		0.299	34	0.88	23
24		0.126	3	0.03	3.0	1.74	35 S	5.26	9.5	1.94	159 S	26.7	24
25		0.110 E	4	0.04		0.601	8	0.42	11.0	5.97	265 S	137	25
26		0.100 E	4	0.03		0.387	6	0.20		2.25	74	14.4	26
27		0.096 E	5	0.04		0.292	6	0.15	9.0	0.889	17 S	1.31	27
28		0.090 E	5	0.04		0.276	9	0.21		1.33	51	5.86	28
29		0.090 E	4	0.03		1.16	72	7.22		0.802	23	1.59	29
30		0.084 E	5	0.04		1.39	16	1.92		0.479 B	18	0.74	30
31		0.090 E	4	0.03					9.0	0.370 B	16 S	0.51	31
TOTAL		4.846		3.18		21.279		83.46		27.914		232.40	TOTAL
MEAN		0.156		0.10		0.709		2.78		0.900		7.50	MEAN

SUMMARY FOR THE YEAR 1982

TOTAL SUSPENDED SEDIMENT LOAD 1 537.18 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	123	
MAXIMUM DAILY	607	ON MAR 31
MINIMUM DAILY	2	ON MAY 09

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	4.21	
MAXIMUM DAILY	698	ON MAR 31
MINIMUM DAILY	0.02	ON MAY 10

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 39 04 N
LONG 80 34 20 W
DRAINAGE AREA 27.7 km^2
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

EAST CANAGAGIGUE CREEK NEAR FLORADALE - STATION NO. 02GA035

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAR 31	13:30	13.3 H	3.0	992 K	5	10	27	49	71	94	98	99	100			BMW
APR 13	14:20	1.70H	2.0	980 K	11	18	35	64	76	98	100					BMW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

ONTARIO

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.600 B	7	0.36	0.1	0.084 B	57 S	0.41	0.1	0.120 B	4 S	0.04	1
2		1.15 B	8	0.79		0.082 B	60	0.43		0.115 B	6	0.06	2
3		0.340 B	7	0.21		0.090 B	61	0.47		0.110 B	11	0.10	3
4	2.0	1.05 B	188 S	17.1		0.095 B	73	0.60		0.105 B	14	0.13	4
5		1.60 B	212	29.3	0.1	0.090 B	76 S	0.59	0.1	0.100 B	16 S	0.14	5
6	0.1	1.23 B	70 S	7.44		0.085 B	72	0.53		0.100 B	15	0.13	6
7		0.600 B	76	3.94		0.082 B	55	0.39		0.100 B	11	0.10	7
8	0.1	0.240 B	91 S	1.89	0.1	0.078 B	40 S	0.27	0.1	0.099 B	5 S	0.04	8
9		0.202 B	89	1.55		0.077 B	45	0.30		0.102 B	13	0.11	9
10		0.150 B	93	1.21		0.077 B	54	0.36	0.1	0.105 B	42 S	0.38	10
11		0.130 B	103	1.16		0.077 B	74	0.49		0.310 B	85	2.28	11
12	0.1	0.120 B	113 S	1.17	0.1	0.077 B	78 S	0.52	0.1	2.05 B	37 S	6.55	12
13		0.110 B	111	1.05		0.078 B	77	0.52		3.60 B	217	67.5	13
14		0.105 B	107	0.97		0.078 B	77	0.52		5.80 B	400	200	14
15	0.1	0.103 B	97 S	0.86		0.130 B	69	0.78	0.1	3.37 B	198 S	57.7	15
16		0.101 B	92	0.80		0.200 B	67	1.16	0.1	2.38 B	112 S	23.0	16
17		0.100 B	79	0.68		0.125 B	65	0.70		3.10 B	83	22.2	17
18	0.1	0.099 B	52 S	0.44	0.1	0.095 B	62 S	0.51		3.20 E	65	18.0	18
19		0.097 B	40	0.34	0.1	0.120 B	36 S	0.37		3.30 E	64 S	18.2	19
20		0.095 B	35	0.29		0.210 B	30	0.54		3.45 E	166	49.5	20
21		0.093 B	32	0.26		0.230 B	23	0.46		3.52 E	93	28.3	21
22	0.1	0.092 B	32 S	0.25	0.1	0.240 B	17 S	0.35		3.70 E	271 S	86.6	22
23		0.120 B	40	0.41		0.242 B	15	0.31		4.40 E	164	62.3	23
24		0.115 B	60	0.60		0.205 B	13	0.23		5.75 E	170	84.5	24
25	0.1	0.105 B	53 S	0.48		0.170 B	11	0.16		3.90 E	143	48.2	25
26		0.095 B	43	0.35	0.1	0.140 B	8 S	0.10		2.15 B	130 S	24.1	26
27		0.093 B	38	0.31		0.135 B	7	0.08		1.75 B	131	19.8	27
28		0.090 B	32	0.25		0.130 B	6	0.07		1.70 B	129	18.9	28
29	0.1	0.088 B	26 S	0.20						1.80 E	135 S	21.0	29
30		0.087 B	30	0.23						6.00 E	204 S	106	30
31		0.086 B	37	0.27					4.0	7.42 E	1 250 S	801	31
TOTAL		9.286		75.16		3.522		12.22		73.706		1 766.86	TOTAL
MEAN		0.299		2.42		0.126		0.44		2.38		57.0	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		5.10 E	572	252		0.290 E				0.200			1
2	2.0	2.50 B	87 S	18.8		0.260 E				0.200			2
3	4.0	13.0 E	1 010 S	1 130		0.230				0.165			3
4		12.0 E	86	89.2		0.230				0.299 E			4
5		3.50 B	62 S	18.7		0.218				0.433 E			5
6		0.690 B	57	3.40		0.212				0.566 E			6
7		0.720 B	44	2.74		0.230				0.700			7
8	3.0	0.750 B	37 S	2.40		0.260 E				0.365			8
9		0.820 E	36	2.55		0.290 E				0.212			9
10		0.930 E	14	1.12		0.320				0.200			10
11		1.04 E	5	0.45		0.260			10.6				11
12		1.20 E	5	0.52		0.248				7.39 E			12
13	6.0	1.95	104 S	17.5		0.230				4.14 E			13
14		1.75 E	87	13.2		0.218				0.900			14
15		1.60 E	45	6.22		0.195 E				0.700			15
16	8.0	1.50	34 S	4.41		0.173 E				1.95			16
17		1.90 E	49	8.04		0.150				1.25			17
18		1.05	37	3.36		0.105				1.13 E			18
19	10.0	1.00 E	17 S	1.47		0.125				1.00 E			19
20		2.90 E	96	24.1		0.500				0.875 E			20
21		2.50 E	139	30.0		0.260				0.750			21
22		1.50 E	48	6.22		0.253 E				0.700			22
23	10.0	0.900	14 S	1.09		0.245 E				0.600			23
24		0.750 E	4	0.26		0.238 E				0.410			24
25		0.695 E	3	0.18		0.230				0.410			25
26	12.2	0.650	2 S	0.11		0.200				0.523 E			26
27		0.570 E	3	0.15		0.160				0.637 E			27
28		0.480 E	6	0.25		0.500				0.750			28
29	12.0	0.364	9 S	0.28		0.408 E				0.700			29
30		0.325 E	6	0.17		0.316 E				0.700			30
31						0.224							31
TOTAL		64.634		1 638.89		7.778				39.455			TOTAL
MEAN		2.15		54.6		0.251				1.32			MEAN

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.600				0.163 E				0.190			1
2		0.523 E				0.149 E				0.175			2
3		0.445 E				0.135				0.200			3
4		0.368 E				0.155				0.188 E			4
5		0.290				0.130				0.175 E			5
6		0.200				0.125				0.163 E			6
7		0.200				0.162 E				0.150			7
8		0.190				0.199 E				0.070			8
9		0.185				0.236				0.055			9
10		0.190 E				0.165				0.055			10
11		0.195 E				0.150				0.055 E			11
12		0.200				0.170				0.055 E			12
13		0.180				0.155				0.055			13
14		0.180				0.147 E				0.055			14
15		0.185				0.138 E				0.110			15
16		0.195				0.130				0.085			16
17		0.417 E				0.125				0.082			17
18		0.638 E				0.125				0.093 E			18
19		0.860				0.120				0.104 E			19
20		0.428				0.115				0.115			20
21		0.242				0.145 E				0.076			21
22		0.212				0.176 E				0.076			22
23		0.165				0.206				0.195			23
24		0.158 E				0.150				0.180			24
25		0.152 E				0.740				0.225 E			25
26		0.145				0.401				0.269 E			26
27		0.165				0.347				0.314			27
28		0.260				0.291 E				0.491			28
29		0.236				0.236 E				0.308			29
30		0.190				0.180				0.190			30
31		0.176 E				0.180							31
TOTAL		8.770				6.046				4.554			TOTAL
MEAN		0.283				0.195				0.152			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.150				0.140				0.630			1
2		0.129 E				0.510				0.482			2
3		0.109 E				0.912				0.730			3
4		0.088				1.98				1.13 E			4
5		0.088				1.53				1.52 E			5
6		0.070				1.15 E				1.92			6
7		0.125				0.771 E				0.992			7
8		0.200				0.392				0.620			8
9		0.218 E				0.284				0.400 B			9
10		0.236 E				0.284				0.290 B			10
11		0.254 E				0.260				0.230 B			11
12		0.272				0.260				0.215 B			12
13		0.190				0.274 E				0.210 B			13
14		0.160				0.288 E				0.245 B			14
15		0.218				0.302				0.330 B			15
16		0.185 E				0.290				1.18 B			16
17		0.153 E				0.260				0.620 B			17
18		0.120				0.242				0.420 B			18
19		0.110				0.242				0.335 B			19
20		0.100				0.628 E				0.240 B			20
21		0.120				1.01 E				0.220 B			21
22		0.130				1.40				0.210 B			22
23		0.117 E				0.770				0.250 B			23
24		0.104 E				1.76				1.07 B			24
25		0.091				0.820				1.80 E			25
26		0.094				0.800				1.16 E			26
27		0.088				0.810 E				0.950 E			27
28		0.097				0.820 E				1.42 E			28
29		0.097				0.830				0.900 E			29
30		0.111 E				0.880				0.680 B			30
31		0.126 E								0.470 B			31
TOTAL		4.350				20.899				21.869			TOTAL
MEAN		0.140				0.696				0.705			MEAN

TYPE OF GAUGE - MANUAL
LOCATION - LAT 43 53 18 N
LONG 78 49 16 W
DRAINAGE AREA 58.5 km^2
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 03	15:45	18.9	4.0	1 380 R	7	16	33	47	59	68	80	88	95	97		BNW

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

ONTARIO

HALFWAY CREEK AT MOOSONEE - STATION NO. 04KA002

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.049 B	60	0.25		0.045 B	60	0.23		0.043 B	59	0.22	1
2		0.049 B	60	0.25		0.045 B	60	0.23		0.043 B	59	0.22	2
3		0.048 B	60	0.25		0.044 B	60	0.23		0.043 B	59	0.22	3
4		0.048 B	61	0.25		0.044 B	60	0.23		0.043 B	60	0.22	4
5		0.048 B	61	0.25		0.044 B	60	0.23		0.043 B	60	0.22	5
6		0.048 B	61	0.25		0.044 B	60	0.23		0.043 B	60	0.22	6
7		0.048 B	61	0.25		0.044 B	60	0.23		0.043 B	60	0.22	7
8		0.048 B	61	0.25		0.044 B	60	0.23		0.043 B	60	0.22	8
9		0.047 B	61	0.25		0.044 B	60	0.23		0.043 B	60	0.22	9
10		0.047 B	61	0.25		0.044 B	60	0.23		0.043 B	60	0.22	10
11		0.047 B	60	0.24		0.044 B	60	0.23		0.043 B	60	0.22	11
12		0.047 B	59	0.24		0.044 B	60	0.23		0.044 B	61	0.23	12
13		0.047 B	59	0.24		0.044 B	60	0.23		0.044 B	61	0.23	13
14		0.047 B	60	0.24		0.044 B	60	0.23		0.045 B	62	0.24	14
15		0.047 B	60	0.24		0.044 B	60	0.23		0.046 B	63	0.25	15
16		0.046 B	60	0.24		0.044 B	60	0.23		0.045 B	63	0.24	16
17		0.046 B	60	0.24		0.044 B	60	0.23		0.045 B	62	0.24	17
18		0.046 B	60	0.24		0.044 B	60	0.23		0.045 B	62	0.24	18
19		0.046 B	60	0.24		0.044 B	60	0.23		0.045 B	63	0.24	19
20		0.046 B	60	0.24		0.044 B	60	0.23		0.047 B	64	0.26	20
21		0.046 B	60	0.24		0.044 B	60	0.23		0.051 B	66	0.29	21
22		0.046 B	60	0.24		0.044 B	60	0.23		0.053 B	68	0.31	22
23		0.046 B	60	0.24		0.044 B	60	0.23		0.055 B	79	0.38	23
24		0.046 B	60	0.24		0.044 B	60	0.23		0.071 B	98	0.60	24
25		0.045 B	60	0.23		0.043 B	60	0.22		0.068 B	99	0.58	25
26		0.045 B	60	0.23		0.043 B	60	0.22	0.1	0.065 B	94 S	0.53	26
27		0.045 B	60	0.23		0.043 B	60	0.22		0.060 B	89	0.46	27
28		0.045 B	60	0.23		0.043 B	60	0.22		0.056 B	85	0.41	28
29		0.045 B	60	0.23						0.053	82	0.38	29
30		0.045 B	60	0.23						0.049	80	0.34	30
31		0.045 B	60	0.23						0.057	78	0.38	31
TOTAL		1.444		7.47		1.230		6.40		1.517		9.25	TOTAL
MEAN		0.046		0.24		0.044		0.23		0.049		0.30	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.058	78	0.39		0.518	71	3.18		4.55	56	22.0	1
2		0.058 B	78	0.39		0.875	76	5.75		6.35	76	41.7	2
3		0.056 B	78	0.38		1.70 B	139 E	20.4		6.31	66	36.0	3
4		0.054 B	78	0.36		4.50 B	204 E	79.3		5.73	43	21.3	4
5		0.052 B	78	0.35		10.0 B	79 E	68.3		4.90	28	11.9	5
6		0.051 B	77	0.34		17.0 B	63	92.5		4.16	20	7.19	6
7		0.050 B	77	0.33		22.0	78	148		3.52	14	4.26	7
8		0.050 B	77	0.33		22.4	76	147	8.0	2.99	9 S	2.33	8
9		0.050 B	77	0.33		18.2	55	86.5		2.57	7	1.55	9
10		0.049 B	77	0.33		14.7	45	57.2		2.27	8	1.57	10
11		0.048 B	77	0.32		12.9	42	46.8		2.13	22	4.05	11
12		0.048 B	77	0.32	2.0	11.7	40 S	40.6		2.18	49	9.23	12
13		0.048 B	76	0.32		10.6	39	35.7		1.90	45	7.39	13
14		0.068	76	0.45		9.83	37	31.4		1.67	44	6.35	14
15		0.076	77	0.51		9.01	36	28.0	10.0	1.52	42 S	5.52	15
16		0.079	81	0.55		8.25	36	25.7		1.41	39	4.75	16
17		0.080	89	0.62	5.5	7.60	35 S	23.0		1.41	38	4.63	17
18		0.076 B	84	0.55		7.04	35	21.3		1.56	43	5.80	18
19		0.067 B	80	0.46		6.87	43	25.5		1.40	35	4.23	19
20		0.064 B	78	0.43		7.02	67	40.6		1.19	23	2.36	20
21		0.064 B	76	0.42		7.23	83	51.8	11.0	1.06	17 S	1.56	21
22		0.064 B	74	0.41		7.01	81	49.1		0.950	15	1.23	22
23		0.065 B	74	0.42		6.51	77	43.3		0.865	14	1.05	23
24		0.068 B	73	0.43		5.78	73	36.5		0.760	13	0.85	24
25		0.072 B	72	0.45	6.0	5.07	68 S	29.8		0.764	13	0.86	25
26		0.078 B	72	0.49		4.54	63	28.7		0.753	11	0.72	26
27		0.087 B	72	0.54		3.99	57	19.6		0.700	10	0.60	27
28		0.100 B	70	0.60		3.47	52	15.6	12.0	0.653	9 S	0.51	28
29		0.133	70	0.80		3.04	46	12.1		0.647	10	0.56	29
30		0.297	70	1.80		2.74	40	9.47		0.641	10	0.55	30
31					7.0	2.66	36 S	8.27					31
TOTAL		2.210		18.42		254.753		1 326.77		67.513		212.60	TOTAL
MEAN		0.074		0.48		8.22		42.8		2.25		7.09	MEAN

ONTARIO

HALFWAY CREEK AT MOOSONEE - STATION NO. 04KA002

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.652	11	0.62		0.845	12	0.88		0.548	8	0.38	1
2		0.625	11	0.59		0.997	12	1.03		0.537	7	0.32	2
3		0.561	11	0.53		0.969	9	0.75		0.607	7	0.37	3
4		0.523	11	0.50	13.0	0.861	6 S	0.45		0.755	11	0.72	4
5		0.482	10	0.42		0.714	6	0.37		0.827	12	0.86	5
6		0.464	9										
7		0.531	9	0.36		0.561	6	0.29		0.796	9	0.62	6
8		1.15	16	0.41		0.533	7	0.32	8.0	0.749	6 S	0.39	7
9		1.56	17	1.59		0.523	8	0.36		0.677	7	0.41	8
10		1.43	11	2.29		0.576	8	0.40		0.703	7	0.43	9
				1.36		0.594	9	0.46		0.769	7	0.47	10
11		1.39	5										
12	12.0	2.65	6 S	0.60		0.673	14	0.81		0.986	8	0.68	11
13		3.68	19	1.37		0.781	19	1.28		1.24	11	1.18	12
14		3.65	20	6.04		0.758	20	1.31		1.73 A	16	2.39	13
15		3.35	13	6.31		0.626	17	0.92		2.10 E	21	3.81	14
				3.76		0.513	15	0.66		2.40 E	22	4.56	15
16		2.96	8										
17		3.43	19	2.05	15.0	0.427	12 S	0.44		2.00 E	14	2.42	16
18		3.66	17	5.63		0.386	12	0.40		1.75 E	9	1.36	17
19		3.25	12	5.38		0.414	12	0.43		1.66 E	6	0.86	18
20		2.81	11	3.37		0.646	16	0.89		1.80 E	4	0.62	19
				2.67		1.09	22	2.07	7.0	1.66 E	4 S	0.57	20
21		2.48	10										
22		2.03	8	2.11		1.30	20	2.25		1.50 E	4	0.52	21
23		1.69	8	1.40		1.21	14	1.46		1.33 E	4	0.46	22
24		1.44	7	1.17		1.03	11	0.98		1.22 E	4	0.42	23
25		1.52	10	0.87		0.897	11	0.85		1.16 E	4	0.40	24
				1.31		0.831	12	0.86		1.11 E	4	0.38	25
26	13.0	1.59	12 S										
27		1.42	12	1.65		0.793	11	0.75		1.05 E	4	0.36	26
28		1.26	11	1.47		0.722	11	0.69		1.01 A	4	0.35	27
29		1.09	10	1.20		0.638	10	0.55		0.924	5	0.40	28
30		0.921	10	0.94		0.577	10	0.50		0.938	6	0.49	29
31		0.740	9	0.80		0.564	10	0.49		1.15	10	0.99	30
				0.58		0.545	9	0.42					31
TOTAL		54.949		59.35		22.594		24.32		35.686		28.19	TOTAL
MEAN		1.77		1.91		0.729		0.78		1.19		0.94	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.36	13	1.53		1.23	12	1.28		0.700 B	6	0.36	1
2		1.34	10	1.16		1.14	12	1.18		0.680 B	5	0.29	2
3		1.26	6	0.65		1.07	12	1.11		0.660 B	5	0.29	3
4	7.0	1.22	4 S	0.42		1.08	16	1.49		0.720 B	5	0.31	4
5		1.17	4	0.40		1.45	25	3.13		0.770 B	5	0.33	5
6		1.10	4										
7		1.01	4	0.38		2.19	29	5.49		0.760 B	5	0.33	6
8		1.11	5	0.35		2.46	30	6.38		0.660 B	5	0.29	7
9		1.23	5	0.48		2.19	27	5.11		0.600 B	5	0.26	8
10		1.23	5	0.53		1.85 B	25	4.00		0.550 B	5	0.24	9
				0.53		1.68 B	23	3.34		0.500 B	5	0.22	10
11		1.17	5										
12		1.07	4	0.51		1.70 B	20	2.94		0.450 B	5	0.19	11
13		0.998	4	0.37	0.1	1.30 B	18 S	2.02		0.410 B	5	0.18	12
14		0.931	5	0.36		0.920 B	15	1.19	0.1	0.380 B	5 S	0.16	13
15		1.14	11	0.40		0.860 B	11	0.82		0.345 B	6	0.18	14
				1.08	0.1	0.820 B	9 S	0.64		0.315 B	6	0.16	15
16		1.49	19										
17		1.54	18	2.45		0.785 B	9	0.61		0.295 B	6	0.15	16
18		1.52	17	2.40		0.765 B	8	0.53		0.270 B	7	0.16	17
19		1.59	18	2.23		0.750 B	8	0.52		0.250 B	8	0.17	18
20		1.70	18	2.47		0.740 B	7	0.45		0.235 B	9	0.18	19
				2.64		0.850 B	8	0.59		0.220 B	10	0.19	20
21		1.77	18										
22		1.84	18	2.75		1.10 B	13	1.24		0.205 B	12	0.21	21
23		1.82	18	2.86		1.30 B	16	1.80		0.190 B	13	0.21	22
24		1.76	17	2.83		1.35 B	11	1.28		0.180 B	15	0.23	23
25		1.75	17	2.59	0.1	1.20 B	6 S	0.62		0.170 B	16	0.24	24
				2.57		1.08 B	5	0.47		0.160 B	17	0.24	25
26		1.69	15										
27		1.58	15	2.19		0.960 B	5	0.41		0.150 B	19	0.25	26
28		1.46	15	2.05		0.870 B	6	0.45		0.143 B	21	0.26	27
29		1.40	14	1.89		0.790 B	6	0.41		0.135 B	24	0.28	28
30		1.35	14	1.69		0.750 B	6	0.39		0.128 B	27	0.30	29
31		1.29	13	1.63		0.730 B	6	0.38		0.121 B	31	0.32	30
				1.45						0.115 B	36	0.36	31
TOTAL		42.889		45.82		35.960		50.27		11.467		7.54	TOTAL
MEAN		1.38		1.48		1.20		1.68		0.370		0.24	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	39	
MAXIMUM DAILY	204	ON MAY 04
MINIMUM DAILY	4	ON SEP 19

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	4.91	
MAXIMUM DAILY	148	ON MAY 07
MINIMUM DAILY	0.15	ON DEC 16

TOTAL SUSPENDED SEDIMENT LOAD 1 792.40 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 15 16 N
LONG 80 39 14 W
DRAINAGE AREA 133 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.680 B	5	0.29	0.1	0.040 B	105 S	0.36	0.1	0.075 B	22 S	0.14	1
2		1.00 B	9	0.78		0.040 B	101	0.35		0.070 B	20	0.12	2
3		0.295 B	10	0.25		0.065 B	85	0.48		0.070 B	21	0.13	3
4	2.0	1.50 B	380 S	49.2		0.070 B	55	0.33		0.100 B	26	0.22	4
5		0.203 B	181	3.17	0.1	0.060 B	35 S	0.18	0.1	0.110 B	27 S	0.26	5
6	1.0	0.685 B	84 S	4.97		0.050 B	43	0.19		0.100 B	22	0.19	6
7		0.400 B	129	4.46		0.040 B	69	0.24		0.080 B	14	0.10	7
8	0.1	0.200 B	212 S	3.66	0.1	0.036 B	95 S	0.30	0.1	0.070 B	6 S	0.04	8
9		0.140 B	198	2.40		0.036 B	92	0.29		0.095 B	10	0.08	9
10		0.100 B	192	1.66		0.036 B	93	0.29	0.1	0.120 B	43 S	0.45	10
11		0.075 B	192	1.24		0.035 B	94	0.28		0.550 B	114	5.42	11
12	0.1	0.070 B	190 S	1.15		0.035 B	90	0.27	0.1	1.25 B	84 S	9.07	12
13		0.065 B	167	0.94		0.035 B	90	0.27		5.00 B	662 E	286	13
14		0.063 B	142	0.77		0.035 B	85	0.26		5.17 B	423	189	14
15	0.1	0.060 B	127 S	0.66	0.1	0.080 B	82 S	0.57	0.1	3.60	280 S	87.1	15
16		0.058 B	134	0.67	0.1	0.200 B	88 S	1.52	0.1	2.81	225 S	58.6	16
17		0.055 B	137	0.65		0.062 B	97	0.52		2.77	276	66.1	17
18		0.053 B	135	0.62		0.042 B	103	0.37		1.97 B	152	25.9	18
19	0.1	0.050 B	133 S	0.57	0.1	0.040 B	109 S	0.38		2.00	95 S	16.4	19
20		0.048 B	140	0.58		0.060 B	101	0.52		3.55	195 S	59.8	20
21		0.046 B	141	0.56		0.110 B	78	0.74		2.98	77	19.8	21
22	0.1	0.070 B	140 S	0.85	0.1	0.150 B	58 S	0.75		3.43	38 S	11.3	22
23		0.098 B	158	1.34		0.135 B	47	0.55		3.50 B	65	19.7	23
24		0.070 B	187	1.13		0.110 B	43	0.41		2.88 B	70	17.4	24
25	0.1	0.055 B	154 S	0.73		0.100 B	43	0.37		1.81 B	23	3.60	25
26		0.053 B	141	0.65	0.1	0.090 B	40 S	0.31		1.28 B	16	1.77	26
27		0.050 B	141	0.61		0.085 B	34	0.25		0.773 B	17	1.14	27
28		0.050 B	135	0.58		0.080 B	28	0.19		0.618 B	20	1.07	28
29	0.1	0.049 B	123 S	0.52					3.0	1.06 B	26 S	2.38	29
30		0.044 B	110	0.42						1.60 B	97	13.4	30
31		0.042 B	105	0.38						8.52	2 450 S	1 800	31
TOTAL		6.427		86.46		1.957		11.58		58.011		2 692.68	TOTAL
MEAN		0.207		2.79		0.070		0.41		1.87		86.9	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		2.72	854	201		0.165				0.205			1
2	3.0	1.02 B	293 S	25.8		0.159				0.185			2
3	4.0	6.91	2 350 S	1 400		0.168				0.183			3
4		1.07	204	18.9		0.148				0.142			4
5		0.585 B	72 S	3.64		0.133				0.567			5
6		0.525 B	86	3.90		0.159				0.764			6
7		0.329 B	57	1.62		0.206				0.330			7
8	2.0	0.343 B	37 S	1.10		0.529				0.223			8
9		0.415 B	44	1.58		0.332				0.160			9
10		0.408	11	0.39		0.203				6.58			10
11		0.496	8	0.34		0.188				2.80			11
12		0.432	10	0.37		0.169				0.531			12
13	7.0	1.00	244 S	21.1		0.164				0.473			13
14		0.619	94	5.03		0.176				0.377			14
15		0.526	50	2.27		0.166				0.955			15
16	12.0	0.545	47 S	2.21		0.150				1.16			16
17		0.898	90	6.98		0.139				0.473			17
18		0.620	84	4.50		0.132				0.322			18
19	8.0	0.392	65 S	2.20		0.585				0.524			19
20		2.47	196	41.8		0.251				0.421			20
21		1.48	112	14.3		0.173				0.388			21
22		0.476	30	1.23		0.202				0.358			22
23	10.0	0.375 E	6 S	0.19		0.193				0.253			23
24		0.335 E	5	0.14		0.191				0.202			24
25		0.295 E	5	0.13		0.190				0.552			25
26	12.0	0.275 E	4 S	0.10		0.180				1.90			26
27		0.240 E	3	0.06		0.164				0.467			27
28		0.215 E	4	0.07		0.553				0.444			28
29	12.0	0.195 E	5 S	0.08		0.319				0.492			29
30		0.170 E	5	0.07		0.242				0.313			30
31						0.210							31
TOTAL		26.379		1 761.10		6.939				22.740			TOTAL
MEAN		0.879		58.7		0.224				0.758			MEAN

ONTARIO

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.214				0.147				0.103			1
2		0.196				0.156				0.160			2
3		0.165				0.147				0.111			3
4		0.169				0.190				0.087			4
5		0.162				0.090				0.084			5
6		0.138				0.087				0.101			6
7		0.123				0.082				0.084			7
8		0.116				0.140				0.087			8
9		0.137				0.111				0.092			9
10		0.140				0.085				0.080			10
11		0.104				0.097				0.084			11
12		0.113				0.074				0.082			12
13		0.098				0.076				0.082			13
14		0.101				0.072				0.345			14
15		0.140				0.069				0.214			15
16		0.148				0.068				0.136			16
17		0.595				0.065				0.103			17
18		0.981				0.066				0.747			18
19		0.484				0.118				0.154			19
20		0.199				0.142				0.119			20
21		0.138				0.065				0.117			21
22		0.121				0.180				0.209			22
23		0.105				0.184				0.330			23
24		0.100				0.094				0.340			24
25		0.119				1.19				0.235			25
26		0.116				0.136				0.163			26
27		0.206				0.108				0.700			27
28		0.665				0.105				0.307			28
29		0.168				0.100				0.192			29
30		0.127				0.113				0.162			30
31		0.139				0.097							31
TOTAL		6.527				4.458				5.810			TOTAL
MEAN		0.210				0.144				0.194			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.149				0.441				0.446			1
2		0.139				0.716				0.478			2
3		0.134				1.02				0.518			3
4		0.124				2.06				1.04			4
5		0.126				1.02				0.814			5
6		0.116				0.478				1.29			6
7		0.529				0.373				0.542			7
8		0.269				0.333				0.411			8
9		0.189				0.299				0.270 B			9
10		0.173				0.276				0.250 B			10
11		0.382				0.364				0.225 B			11
12		0.196				0.504				0.210 B			12
13		0.191				0.404				0.204 B			13
14		0.254				0.310				0.200 B			14
15		0.261				0.260				0.350 B			15
16		0.190				0.234				1.34			16
17		0.173				0.227				0.570 B			17
18		0.160				0.216				0.285 B			18
19		0.182				0.215				0.235 B			19
20		0.282				0.223				0.225 B			20
21		0.170				1.44				0.219 B			21
22		0.167				0.729				0.215 B			22
23		0.179				0.782				0.245 B			23
24		0.158				1.30				0.690 B			24
25		0.149				0.477				2.00 B			25
26		0.165				0.405				0.880 B			26
27		0.148				0.386				0.600 B			27
28		0.159				0.409				1.30 B			28
29		0.144				0.803				0.700 B			29
30		0.173				0.564				0.500 B			30
31		0.148								0.450 B			31
TOTAL		5.979				17.268				17.702			TOTAL
MEAN		0.193				0.575				0.571			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 53 15 N
LONG 78 49 30 W
DRAINAGE AREA 41.6 km^2
NATURAL FLOW

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 03	13:30	14.3	4.0	3 690 R	10	13	23	33	43	57	73	86	93	97		BHW

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

BED LOAD PARTICLE-SIZE ANALYSIS FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASURE-MENT (m^3/s)	NUMBER OF SAMPLING POINTS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS	TYPE OF SAMPLER
				0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	4.000	8.000	16.000	32.000	64.000		
MAR 15	13:00	3.67	4			1	2	38	85	96	98	100					F	BOGARDI
MAR 16	11:15	1.85	4			1	2	41	90	97	98	100					F	BOGARDI
MAR 31	08:10	5.07	4			2	10	50	94	100							S	BOGARDI
APR 03	14:30	14.3	4			2	11	62	88	90	92	95	98	100			S	BOGARDI

ONTARIO

HUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		2.30	15	2.98		1.08 B	37	3.45		1.17 B	25	2.53	1
2		2.64	11	2.51		1.11 B	36	3.45		1.18 B	25	2.55	2
3		2.13	14	2.58		1.15 B	35	3.48		1.24 B	24	2.57	3
4		3.50 B	42	12.7		1.19 B	34	3.50		1.31 B	24	2.72	4
5	0.1	4.80 B	66 S	27.4		1.24 B	34	3.64		1.39 B	27	3.24	5
6		2.00 B	50	8.64		1.29 B	33	3.68		1.46 B	29	3.66	6
7		1.55 B	49	6.56		1.29 B	33	3.68		1.38 B	26	3.10	7
8		1.40 B	49	5.93		1.29 B	32	3.57		1.30 B	24	2.70	8
9		1.30 B	51	5.73	0.1	1.28 B	32 S	3.54		1.22 B	23	2.42	9
10		1.25 B	65	7.02		1.25 B	32	3.46		1.40 B	23	2.78	10
11		1.22 B	84	8.85		1.21 B	32	3.35	0.1	1.83 B	31 S	4.90	11
12		1.18 B	95	9.69		1.18 B	33	3.36		3.00 B	47	12.2	12
13		1.15 B	90	8.94		1.16 B	32	3.21		7.00 B	198	120	13
14	0.1	1.11 B	83 S	7.96		1.19 B	33	3.39	0.1	20.5 B	412 S	730	14
15		1.10 B	77	7.32		1.26 B	33	3.59		20.6 B	462	822	15
16		1.09 B	72	6.78		1.35 B	37	4.32		17.0 B	401	589	16
17		1.07 B	66	6.10		1.33 B	39	4.48		13.0 B	382	429	17
18		1.05 B	61	5.53		1.32 B	35	3.99		10.5 B	545	494	18
19		1.04 B	58	5.21		1.31 B	33	3.74	*.0	7.70 B	467 S	311	19
20		1.03 B	56	4.98		1.30 B	32	3.59		10.5 B	455	413	20
21		1.02 B	56	4.94		1.24 B	31	3.32		9.00 B	439	341	21
22		1.02 B	56	4.94		1.19 B	30	3.08		7.00 B	374	226	22
23		1.01 B	58	5.06		1.18 B	29	2.96		7.80 B	437	295	23
24		1.01 B	59	5.15		1.17 B	29	2.93		10.2 B	471	415	24
25		1.00 B	54	4.67		1.16 B	28	2.81		9.60 B	452	375	25
26		1.00 B	50	4.32		1.15 B	26	2.58		7.00 B	384	232	26
27		1.00 B	47	4.06		1.14 B	26	2.56		5.00 B	345	149	27
28		1.01 B	44	3.84		1.15 B	25	2.48		4.70 B	319	130	28
29		1.02 B	41	3.61						6.10 B	313	165	29
30		1.04 B	39	3.50						9.03	407	318	30
31		1.06 B	37	3.39					3.0	37.5	2 360 S	7 650	31
TOTAL		45.10		200.89		34.16		95.19		237.61		14 249.37	TOTAL
MEAN		1.45		6.48		1.22		3.40		7.66		460	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	1.7	37.4	1 670 S	5 400		2.24	19	3.68	18.0	2.19 A	91 S	17.2	1
2		14.5	725	908		2.18	17	3.20		2.12 E	68	12.5	2
3	3.0	16.1	1 030 S	1 430		2.08	16	2.88		2.08 E	54	9.70	3
4		15.0	673	872		2.00	15	2.59		2.02 E	48	8.38	4
5		7.97	381	262		1.98	14	2.40		3.30 E	69	19.7	5
6		6.60 B	337	192		1.96	14	2.37		5.20 E	180	80.9	6
7		4.40 B	200	76.0	17.0	1.97	13 S	2.21	19.0	3.62 A	211 S	66.0	7
8		4.50 B	186	72.3		2.44	20	4.22		3.32	133	38.2	8
9		4.57	167	65.9		3.18	29	7.97		2.55	98	21.6	9
10		4.52	150	58.6	17.0	2.53	17 S	3.72	20.0	1.92 A	89 S	14.8	10
11		4.57	142	56.1	20.0	2.10	19 S	3.45		1.75 E	82	12.4	11
12		4.71	141	57.4	19.0	1.90	13 S	2.13		1.64 E	81	11.5	12
13	4.0	5.32	175 S	80.4	21.0	1.78	17 S	2.61		1.67 E	81	11.7	13
14		5.88	178	90.4	22.0	1.92	81 S	11.4		1.70 E	83	12.2	14
15		5.38	159	73.9		1.73	62	9.27		1.95 E	92	15.5	15
16		5.47	163	77.0		1.66	24	3.44	17.0	3.32 A	204 S	58.5	16
17		9.38	280	227	21.0	1.63	12 S	1.69	19.0	3.50	123 S	37.2	17
18		9.36	237	192		1.65	11	1.57		2.55	75	16.5	18
19		6.36	152	83.5	20.0	1.57	25 S	3.39		3.26	154	43.4	19
20		6.12	145	76.7		1.88	38	6.17		4.88	226	95.3	20
21		7.34	161	102	24.0	1.99	23 S	3.95	15.0	4.89	229 S	96.8	21
22		5.28	102	46.5		1.77	18	2.75		5.23	206	93.1	22
23		4.19	65	23.5		2.04	34	5.99		5.58	243	117	23
24		3.91	40	13.5		2.20	30	5.70		4.10	188	66.6	24
25		3.39	34	9.96	14.0	2.08	44 S	7.91		2.93	148	37.5	25
26		3.13	30	8.11	21.0	1.66	27 S	3.87	18.0	4.23	218 S	79.7	26
27	9.0	2.84	27 S	6.63		1.53	19	2.51		3.56	132	40.6	27
28		2.82	25	6.09	22.0	1.82	41 S	6.45		2.61	93	21.0	28
29		2.56	22	4.87		3.00	95	24.6	22.0	4.77	692 S	285	29
30		2.38	20	4.11		2.60	63	14.2	20.0	2.38	133 S	27.3	30
31						2.33	69	13.9					31
TOTAL		215.95		10 576.47		63.40		174.19		94.82		1 467.78	TOTAL
MEAN		7.20		353		2.05		5.62		3.16		48.9	MEAN

HUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		1.85	89	14.2		1.10	56	5.32	16.0	1.27	43 S	4.72	1
2		1.59	86	11.8		1.03	64	5.70	16.0	1.26	72 S	7.84	2
3		1.42	86	10.6	20.0	1.57	66 S	8.95		1.20	37	4.09	3
4		1.27	82	9.00		1.77	63	9.63	18.0	1.22	23 S	2.42	4
5		1.22	82	8.64		1.90	66	10.8		1.05	23	2.09	5
6		1.16	82	8.22		1.62	52	7.28		0.993	22	1.89	6
7		1.18	81	8.26		1.43	47	5.81		0.951	20	1.64	7
8		1.09	78	7.35		1.24	43	4.61	15.0	1.17	27 S	2.73	8
9		0.998	75	6.47		1.32	56	6.39		1.10	30	2.85	9
10		0.887	75	5.75		1.28	32	3.54		1.08	29	2.71	10
11	26.0	0.883	74 S	5.65	20.0	1.16	26 S	2.61		0.891	25	1.92	11
12		0.904	52	4.84		1.07	22	2.03		0.887	24	1.84	12
13		0.970	51	4.27		0.988	20	1.71		0.885	24	1.84	13
14		0.877	43	3.26		0.953	16	1.32		0.960	30	2.49	14
15		0.835	31	2.24		0.878	14	1.06		3.88	359	120	15
16	28.0	0.753	24 S	1.56	25.0	0.835	11 S	0.79	16.0	3.77	169 S	55.0	16
17		0.833	56	4.03		0.755	11	0.72		2.08	86	15.5	17
18		1.19	110	11.3		0.687	11	0.65		2.28	138	27.2	18
19		1.67	228	32.9		0.734	14	0.89		2.57	150	33.3	19
20	24.0	1.76	176 S	26.8		1.99	99	17.0	17.0	1.93	62 S	10.3	20
21	26.0	1.24	66 S	7.07		2.72	109	25.6	14.0	1.64	36 S	5.10	21
22		1.03	58	5.16		2.03	50	8.77		1.53	29	3.83	22
23		0.868	55	4.12		1.80	33	5.13		2.20	101	19.2	23
24		0.822	49	3.48		1.59	23	3.16		3.02	93	24.3	24
25		0.789	47	3.20		3.13	198	53.5		2.58	57	12.7	25
26		0.744	48	3.09	16.0	4.08	201 S	70.9		2.40	45	9.33	26
27		0.799	54	3.73	18.0	2.34	47 S	9.50		2.46	43	9.14	27
28		1.79	179	27.7		1.76	29	4.41	14.0	3.88	142 S	47.6	28
29	27.0	2.25	224 S	43.5		1.36	29	3.41		3.30	100	28.5	29
30		1.54	105	14.0		1.32	31	3.54		2.43	56	11.8	30
31		1.29	67	7.47		1.33	31	3.56					31
TOTAL		36.502		309.66		47.770		288.29		56.947		473.87	TOTAL
MEAN		1.18		9.99		1.54		9.30		1.90		15.8	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		1.97	52	8.85		2.34	65	13.1	4.0	4.72	82 S	33.4	1
2		1.65	55	7.84		6.19	549	294		3.83	31	10.3	2
3		1.52	54	7.09		6.75	437	255		3.61	31	9.67	3
4		1.42	58	7.12		7.41	361	231		4.29	77	28.5	4
5		1.43	59	7.29		7.40	425	272		4.42	88	33.6	5
6		1.32	63	7.19		4.87	296	125		12.1	718	751	6
7		1.63	102	14.4		3.64	218	68.6	3.0	7.55	365 S	238	7
8		2.46	152	32.3		3.06	179	47.3		5.11	189	83.4	8
9		2.24	132	25.5		2.68	150	34.7		3.75 B	74	24.0	9
10		1.84	95	15.1		2.36	128	26.1		2.34 B	83	16.8	10
11		1.78	65	10.00		2.24	99	19.2		2.78 B	130	31.2	11
12		1.78	45	6.92		2.58	80	17.8		1.51 B	90	11.7	12
13		1.65	30	4.28		3.11	92	24.7		1.20 B	61	6.75	13
14		1.56	22	2.97		2.88	63	15.7		2.04	88	15.5	14
15	19.0	1.57	8 S	1.09	2.0	2.53	17 S	3.72		2.93	150	38.0	15
16		1.54	6	0.80		2.26	16	3.12		5.43	297	139	16
17		1.75	38	5.75		2.17	18	3.37		6.00 B	307	159	17
18		1.86	63	10.1		2.04	18	3.17		3.40 B	133	39.1	18
19	8.0	1.72	37 S	5.50		1.97	16	2.72		3.71 B	137	43.9	19
20	9.0	1.72	43 S	6.39		2.05	20	3.54		3.33 B	96	27.6	20
21	9.0	1.71	47 S	6.94	2.0	3.24	107 S	30.3		3.11 B	87	23.4	21
22		1.67	40	5.77	0.1	4.42	145 S	55.4		2.99 B	90	23.3	22
23		1.56	38	5.12		3.59	27	8.37		2.96	95	24.3	23
24		1.56	38	5.12		6.25	219	118		3.85	138	45.9	24
25		1.49	37	4.76		5.14	78	34.6		14.7	852	1 080	25
26		1.46	37	4.67		3.72	38	12.2		21.9	947	1 790	26
27	9.0	1.42	36 S	4.42		3.07	34	9.02		10.5	352	319	27
28	9.0	1.42	24 S	2.94		2.71	26	6.09		7.29	203	128	28
29		1.45	21	2.63	0.1	4.21	100 S	36.4		6.66	150	86.3	29
30		1.41	22	2.68	0.1	6.03	188 S	97.9		4.48 B	133	51.5	30
31		1.45	25	3.13						2.85 B	112	27.6	31
TOTAL		51.01		234.66		112.95		1 872.12		165.42		5 339.72	TOTAL
MEAN		1.65		7.57		3.77		62.4		5.34		172	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	352	
MAXIMUM DAILY	2 360	ON MAR 31
MINIMUM DAILY	6	ON OCT 16

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	96.7	
MAXIMUM DAILY	7 650	ON MAR 31
MINIMUM DAILY	0.65	ON AUG 18

TOTAL SUSPENDED SEDIMENT LOAD 35 282.21 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 48 39 N
LONG 79 37 38 W

DRAINAGE AREA 303 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

HUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAR 31	16:00	37.5 H	3.0	2 800 K	11	18	25	42	62	78	86	93	98	99		BNW
MAR 31	17:05	37.5 H	3.0	3 100 K	6	12	21	35	53	74	88	95	98	100		BNW

H - DAILY MEAN DISCHARGE

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

LUCKNOW RIVER AT LUCKNOW - STATION NO. 02FD002

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.548 B				0.552 B				0.354 B			1
2		0.619 B				0.539 B				0.346			2
3		0.789				0.531 B				0.412 B			3
4		2.08				0.520 B				0.496 B			4
5		2.00				0.512 B				0.402 B			5
6		1.78				0.501 B				0.352 B			6
7		1.31				0.493 B				0.325			7
8		1.22 B				0.482 B				0.322 B			8
9		1.14 B				0.472 B				0.329 B			9
10		1.05 B				0.468 B				0.331 B			10
11		0.994 B				0.461 B				0.334 B			11
12		0.953 B				0.456 B				0.534 B			12
13		0.919 B				0.447 B				1.50 B			13
14		0.894 B				0.442 B				2.78 B			14
15		0.866 B				0.439 B				3.43 B			15
16		0.838 B				0.428				3.72 B			16
17		0.812 B				0.619 B				3.96 B			17
18		0.780 B				0.465 B				3.98 B			18
19		0.759 B				0.428				4.08 B			19
20		0.732 B				0.418				4.13 B			20
21		0.718 B				0.488 B				4.05 B			21
22		0.698 B				0.480 B				3.37 B			22
23		0.809 B				0.396 B				3.53 B			23
24		1.02 B				0.389 B				4.42 B			24
25		1.09 B				0.382 B				4.69 B			25
26		0.880 B				0.378 B				3.62 B			26
27		0.700 B				0.371 B				2.68 B			27
28		0.642 B				0.360 B				2.51 B			28
29		0.612 B								2.88			29
30		0.583 B								5.03			30
31		0.565 B								17.4			31
TOTAL		29.400				12.759				86.297			TOTAL
MEAN		0.948				0.455				2.78			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		13.1	95	108		0.776	7	0.47		0.761	28	1.84	1
2		6.98	44	26.6		0.716	7	0.43		0.791	36	2.46	2
3		7.24	38	23.8		0.689	7 S	0.42		0.564	28	1.36	3
4		5.28	27	12.3		0.654	6 S	0.34		0.497	25 S	1.07	4
5		3.81	22	7.24		0.612	6	0.33		0.479	18	0.74	5
6		3.56	22	6.77		0.601	6	0.31		0.520	16 S	0.72	6
7		2.98	21 S	5.41		0.607	10 S	0.52		0.446	16	0.62	7
8		2.49	24	5.16		0.693	11 S	0.66		0.414	18	0.64	8
9		2.80	26 S	6.29		0.630	6	0.33		0.390	18	0.61	9
10		2.77	15 S	3.59		0.576	6 S	0.30		0.365	18	0.57	10
11		2.80	9	1.87		0.547	6	0.28		0.341	18	0.53	11
12		2.34	16 S	3.23		0.511	6	0.26		0.316	18	0.49	12
13		3.57	51 S	15.7		0.494	18 S	0.77		0.298	18	0.46	13
14		3.62	28	8.76		0.469	20	0.81		0.277	18 S	0.43	14
15		2.89	26	6.49		0.446	15	0.58		0.686	146 S	8.65	15
16		2.80	23	5.56		0.425	11 S	0.40		3.88	268	89.8	16
17		5.15	85 S	20.0		0.421	9	0.33		1.99	75	12.9	17
18		3.84	17 S	5.69		0.400	9	0.31		1.12	35	3.39	18
19		2.56	11 S	2.43		0.382	10	0.33		3.55	55 S	16.9	19
20		2.20	11	2.09		0.603	17	0.89		3.74	39 S	12.6	20
21		1.92	10 S	1.66		0.522	8 S	0.36		6.99	86 S	51.9	21
22		1.61	10	1.39		0.426	5	0.18		4.00	15 S	5.18	22
23		1.40	10 S	1.21		0.777	59 S	3.96		2.10	13 S	2.36	23
24		1.25	10	1.08		1.04	24 S	2.16		1.38	14 S	1.67	24
25		1.13	13	1.27		0.777	14	0.94		1.59	33 S	4.53	25
26		1.04	13 S	1.17		0.601	12	0.62		2.87	40 S	9.92	26
27		0.947	10	0.82		0.506	12	0.52		1.86	17 S	2.73	27
28		0.890	8	0.62		1.19	40	4.11		1.27	15	1.65	28
29		0.847	7 S	0.51		1.61	42 S	5.84		0.970	19	1.60	29
30		0.810	7	0.49		0.989	15	1.28		0.822	18 S	1.28	30
31						0.780	11 S	0.74					31
TOTAL		98.234		287.15		20.490		29.78		45.281		239.60	TOTAL
MEAN		3.14		9.57		0.661		0.96		1.51		7.99	MEAN

ONTARIO

LUCKNOW RIVER AT LUCKNOW - STATION NO. 02FD002

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.684	16	0.95		0.260	7 S	0.16		0.208	18	0.32	1
2		0.590	16	0.82		0.364	18	0.57		0.231	15	0.30	2
3		0.544	14	0.66		0.438	18 S	0.68		0.264	13	0.30	3
4		0.515	14 S	0.62		0.834	86 S	6.20		2.253	11	0.24	4
5		0.484	14	0.59		0.752	71	4.61		0.226	9	0.18	5
6		0.432	13	0.49		0.406	32	1.12		0.221	7 S	0.13	6
7		0.395	11	0.38		0.299	22	0.57		0.226	6	0.12	7
8		0.357	10	0.31		0.486	35 S	1.47		0.206	6	0.11	8
9		0.331	9	0.26		0.545	43 S	2.02		0.201	7	0.12	9
10		0.316	8	0.22		0.345	35 S	1.04		0.186	6	0.10	10
11		0.317	7 S	0.19		0.273	28	0.66		0.181	6	0.09	11
12		0.322	6	0.17		0.259	21	0.47		0.177	5	0.08	12
13		0.295	6	0.15		0.220	17	0.32		0.169	6	0.09	13
14		0.273	5	0.12		0.214	14	0.26		0.210	8	0.15	14
15		0.254	4	0.09		0.201	13	0.23		0.331	14	0.40	15
16		0.236	4	0.08		0.180	12	0.19		0.342	8	0.24	16
17		0.342	4 S	0.12		0.171	11 S	0.16		0.293	7	0.18	17
18		0.451	5	0.19		0.159	11	0.15		0.557	25	1.20	18
19		0.322	2	0.06		0.155	11	0.15		0.524	12	0.54	19
20		0.275	2 S	0.05		0.166	12	0.17		0.373	4	0.13	20
21		0.245	3	0.06		0.165	12	0.17	13.0	0.320	3 S	0.08	21
22		0.227	4 S	0.08		0.181	16	0.25		0.270	3	0.07	22
23		0.214	5	0.09		0.231	20 S	0.40		0.352	6	0.18	23
24		0.207	4	0.07		0.230	20	0.40		0.334	4	0.12	24
25		0.195	4 S	0.07		0.430	38	1.41		0.283	3	0.07	25
26		0.186	4	0.06		0.403	32	1.11		0.270	3	0.07	26
27		0.196	8 S	0.14		0.277	23	0.55		0.388	7	0.23	27
28		0.413	27	0.96		0.237	22	0.45		0.666	13	0.75	28
29		0.316	12	0.33		0.216	22	0.41		0.464	6	0.24	29
30		0.254	8	0.18		0.227	21 S	0.41	18.0	0.356	3 S	0.09	30
31		0.254	6	0.13		0.232	20	0.40					31
TOTAL		10.442		8.69		9.556		27.16		9.082		6.92	TOTAL
MEAN		0.337		0.28		0.308		0.88		0.303		0.23	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.305	3	0.08		0.489	17	0.72		2.10	9	1.63	1
2		0.268	3	0.07		1.59	55	7.56	9.0	1.71	11 S	1.63	2
3		0.262	3	0.07		1.40	46	5.56		2.12	18	3.30	3
4		0.225	3	0.06		1.05	32	2.90		2.78	23	5.52	4
5		0.223	3	0.06		0.715	27	1.67		2.76	21 S	5.01	5
6		0.216	3	0.06	3.0	0.597	24 S	1.24	8.0	3.45	23 S	6.86	6
7		0.219	4	0.08		0.512	22	0.97		2.28	9	1.77	7
8		0.213	3	0.06		0.455	20	0.79		1.58	8	1.09	8
9		0.210	3	0.05		0.368	16	0.51		1.36	8	0.94	9
10	13.0	0.214	4 S	0.07		0.341	11	0.32		1.20	8	0.83	10
11	14.0	0.309	5 S	0.13		0.361	10	0.31		1.13	7	0.68	11
12		0.301	4	0.10		1.32	37	4.22		1.04	7	0.63	12
13		0.263	4	0.09		1.54	29	3.86		0.931	7	0.56	13
14		0.289	5	0.12		1.15	15	1.49		0.876	6	0.45	14
15		0.375	6	0.19		0.846	9	0.66		1.18	10	1.02	15
16		0.423	5	0.18		0.705	6	0.37		2.90	19	4.76	16
17		0.526	7	0.32		0.652	5	0.28		2.22	8	1.53	17
18		0.486	5	0.21	3.0	0.623	5 S	0.27		1.48	7	0.90	18
19	14.0	0.397	3 S	0.10		0.601	4	0.21		1.23	7	0.74	19
20	11.0	0.376	3 S	0.10		0.866	15	1.12		1.20	7	0.73	20
21		0.387	5	0.17	9.0	1.49	31 S	3.99		1.17	7	0.71	21
22		0.330	4	0.11		1.28	12	1.33		1.12	6	0.58	22
23		0.264	3	0.07	6.0	1.31	15 S	1.70		1.25	10	1.08	23
24	8.0	0.242	2 S	0.04		2.16	33	6.16		5.12	33	18.6	24
25		0.230	2	0.04		1.59	12	1.65		8.57	54	40.0	25
26		0.225	2	0.04		1.20	6	0.62		5.47	17 S	8.03	26
27		0.221	1	0.02		0.969	4	0.33		2.96	8	2.05	27
28		0.210	1	0.02		0.994	8	0.69		2.75	9	2.14	28
29	10.0	0.221	1 S	0.02		3.12	40	10.8		2.47	8	1.71	29
30		0.236	2	0.04		3.04	20	5.25		1.79	8	1.24	30
31		0.251	3	0.07						1.40	7	0.85	31
TOTAL		8.917		2.84		33.334		67.55		69.597		113.57	TOTAL
MEAN		0.287		0.09		1.11		2.25		2.24		3.66	MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 57 44 N
LONG 81 30 55 W
DRAINAGE AREA 54.9 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

NORTH MAGNETAWAN RIVER ABOVE PICKEREL LAKE - STATION NO. 02EA010

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		1.32	13	1.48		1.00 B	10	0.86		0.720 B	6	0.37	1
2	0.1	1.29	24 S	2.67		0.980 B	10	0.85		0.720 B	7	0.44	2
3		1.36	27	3.17		0.970 B	10	0.84		0.710 B	7	0.43	3
4		1.37	18	2.13		0.960 B	10	0.83		0.705 B	8	0.49	4
5		1.54	10	1.33		0.950 B	10	0.82		0.705 B	8	0.49	5
6	0.1	1.62	9 S	1.26		0.930 B	10	0.80		0.700 B	6	0.36	6
7		1.51	9	1.17		0.910 B	10	0.79		0.700 B	7	0.42	7
8		1.38	9	1.07		0.900 B	10	0.78		0.700 B	9	0.54	8
9		1.36	9	1.06		0.890 B	9	0.69		0.700 B	9	0.54	9
10		1.32	9	1.03		0.880 B	10	0.76		0.700 B	8	0.48	10
11		1.30	9	1.01		0.870 B	10	0.75		0.710 B	6	0.37	11
12		1.32	9	1.03		0.860 B	10	0.74		0.780 B	7	0.47	12
13		1.31	10	1.13		0.850 B	10	0.73	0.1	1.05 B	9 S	0.82	13
14		1.29	10	1.11		0.840 B	10	0.73		1.41	12	1.46	14
15		1.30	10	1.12		0.830 B	9	0.65		1.63	14	1.97	15
16		1.29	9	1.00		0.820 B	10	0.71		1.94	15	2.51	16
17		1.29	10	1.11		0.810 B	10	0.70		1.95	18	3.03	17
18		1.27	10	1.10		0.805 B	9	0.63	0.1	1.85	18 S	2.88	18
19		1.27	9	0.99		0.800 B	10	0.69		1.77	15	2.29	19
20		1.24	9	0.96		0.790 B	10	0.68		1.74	14	2.10	20
21		1.23	10	1.06		0.780 B	10	0.67		1.74	15	2.26	21
22		1.20 B	8	0.83		0.770 B	10	0.67		1.69	14	2.04	22
23		1.18 B	10	1.02		0.760 B	10	0.66		1.65	14	2.00	23
24		1.16 B	11	1.10	0.1	0.752 B	10 S	0.65		1.69	14	2.04	24
25		1.13 B	10	0.98		0.740 B	8	0.51		1.77	12	1.84	25
26		1.12 B	10	0.97		0.740 B	7	0.45		1.84	10	1.59	26
27		1.10 B	10	0.95		0.730 B	6	0.38		1.73	9	1.35	27
28		1.08 B	10	0.93		0.720 B	5	0.31		1.74	7	1.05	28
29		1.07 B	11	1.02						1.73	6	0.90	29
30		1.04 B	10	0.90						1.65	5	0.71	30
31		1.03 B	10	0.89						2.27	8 S	1.57	31
TOTAL		39.29		37.58		23.637		19.33	0.1	41.390		39.81	TOTAL
MEAN		1.27		1.21		0.844		0.69		1.34		1.28	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		4.47	26	10.0		6.24	28	15.1	17.5	1.07	9 S	0.83	1
2	0.1	5.11	21 S	9.27	9.0	5.39	19 S	8.85	14.0	1.08	15 S	1.40	2
3	0.1	5.08	9 S	3.95		4.75	13	5.34		0.987	15	1.28	3
4		5.98	21	10.9		4.18	13	8.69		0.911	15	1.18	4
5		6.27	25	13.5	9.6	3.69	13 S	4.14		0.835	14	1.01	5
6		5.82	18	9.05		3.39	13	3.81		0.813	14	0.98	6
7		4.90	17	7.20		3.26	13	3.66		0.738	14	0.89	7
8		4.16	15	5.39		3.29	11	3.13		0.710	12	0.74	8
9		3.71	11	3.53		3.03	12	3.14		0.655	11	0.62	9
10		3.52	7	2.13		2.67	11	2.54		0.638	8	0.46	10
11		3.52	6	1.82	14.0	2.40	12 S	2.49		0.680	6	0.35	11
12		3.48	7	2.10		2.20	11	2.09		0.650	7	0.39	12
13	0.1	4.42	11 S	4.20		2.03	10	1.75		0.685	7	0.41	13
14	0.5	6.77	36 S	21.1		1.82	9	1.42		0.692	7	0.42	14
15	1.5	8.21	43 S	30.5		1.72	9	1.34		0.644	8	0.45	15
16		12.1	77	80.5		1.69	7	1.02	15.0	0.917	14	1.11	16
17	0.8	21.3	131 S	241	16.5	1.59	7 S	0.96		1.05	18 S	1.63	17
18	0.1	47.4	79 S	324		1.52	8	1.05		0.849	16	1.17	18
19	0.1	36.1	49 S	153		1.49	8	1.03		1.48	21	2.69	19
20	0.1	21.0	72 S	131		1.40	8	0.97		3.23	36	10.0	20
21		17.3	61	91.2		1.35	8	0.93		2.62	32	6.69	21
22	1.3	14.3	37 S	45.7		1.26	9	0.98		1.88	25	4.06	22
23	2.2	12.0	29 S	30.1		1.16	10	0.98		1.58	19	2.59	23
24		14.6	52	65.6		1.27	13	1.43		1.41	14	1.71	24
25	4.0	18.5	76 S	121	11.5	1.40	15 S	1.81		1.32	12	1.37	25
26	5.0	21.6	78 S	146		1.26	14	1.52		1.34	14	1.62	26
27	5.0	19.7	38 S	64.7		1.18	14	1.43		1.18	12	1.22	27
28		13.3	15	17.2		1.14	11	1.08		0.988	12	1.02	28
29	7.5	9.34	37 S	29.9		1.08	8	0.75		0.869	12	0.90	29
30		7.37	40	25.5		1.01	8	0.70		0.828	11	0.79	30
31						1.05	8	0.73					31
TOTAL		361.33		1 781.04		70.89		80.86		33.129		49.96	TOTAL
MEAN		12.0		56.7		2.29		2.61		1.10		1.67	MEAN

ONTARIO

NORTH MAGNETAWAN RIVER ABOVE PICKEREL LAKE - STATION NO. 02EA010

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.723	12	0.75	19.5	0.370	8 S	0.26		0.501	12	0.52	1
2		0.686	11	0.65		0.445	10	0.38		1.90	29	4.76	2
3		0.733	12	0.76		0.493	13	0.55		2.15	24	4.46	3
4		0.771	14	0.93		0.452	10	0.39		2.49	26	5.59	4
5		0.659	12	0.68		0.407	10	0.35		1.95	20	3.37	5
6		0.593	10	0.51		0.378	10	0.33		1.98	22	3.76	6
7		0.526	10	0.45		0.354	9	0.28		1.94	23	3.86	7
8		0.536	10	0.46		0.332	10	0.29		1.47	17	2.16	8
9		0.493	9	0.38		0.325	10	0.28	10.0	1.17	16 S	1.62	9
10		0.449	10	0.39		0.307	10	0.27		1.00 E	14	1.21	10
11		0.481	9	0.37		0.306	10	0.26		0.900 E	11	0.86	11
12		0.614	13	0.69		0.290	9	0.23		0.860 E	10	0.69	12
13		0.729	17	1.07		0.292	10	0.25		1.50 E	13	1.68	13
14		0.658	13	0.74		0.279	9	0.22		2.33 E	17	3.42	14
15		0.566	9	0.44		0.291	9	0.23		2.35 E	22	4.47	15
16		0.511	8	0.35	12.0	0.306	10 S	0.26		2.25 E	15	2.92	16
17		0.487	9	0.38		0.323	10	0.28		2.23 E	14	2.70	17
18		0.489	9	0.38		0.270	9	0.21		4.10 E	22	7.79	18
19		0.474	8	0.33		0.302	10	0.26		3.70 E	20	6.39	19
20		0.432	8	0.30		0.318	11	0.30		3.30 E	16	4.56	20
21		0.412	8	0.28		0.312	11	0.30		2.90 E	11	2.76	21
22		0.393	7	0.24		0.359	10	0.31		2.62 E	7	1.58	22
23		0.375	7	0.23		0.759	15	0.98		2.40 E	6	1.24	23
24		0.354	8	0.24		0.931	17	1.27		2.23 E	6	1.16	24
25		0.351	8	0.24		0.658	12	0.68		2.10 E	6	1.09	25
26		0.346	8	0.24		0.523	11	0.50		1.93 E	5	0.83	26
27		0.340	8	0.24		0.498	12	0.52		1.83 E	6	0.95	27
28		0.337	8	0.23		0.511	11	0.49		2.20 E	5	0.95	28
29		0.348	8	0.24		0.473	10	0.41		2.12 E	5	0.92	29
30		0.342	8	0.24		0.434	10	0.37		2.00 E	6	1.04	30
31		0.378	8	0.26		0.408	9	0.32					31
TOTAL		15.586		13.69		12.706		12.13		62.341		79.31	TOTAL
MEAN		0.503		0.44		0.410		0.39		2.08		2.64	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		2.20 E	13	2.47	7.0	1.50	9 S	1.17	0.5	4.14	11 S	3.93	1
2		2.80 E	14	3.39		1.57	9	1.22		5.37	13	6.03	2
3		2.75 E	9	2.14		2.56	15	3.32		6.93	17	10.2	3
4		2.55 E	5	1.10		3.48	16	4.81		7.93	22	15.1	4
5		2.40 E	5	1.04		3.68	10	3.18		7.07	21	12.8	5
6		2.25 E	5	0.97	4.0	3.81	8 S	2.63	5.0	12.4	42 S	45.0	6
7		2.15 E	5	0.93		3.66	7	2.21		14.2	46	56.4	7
8		2.12 E	8	1.47		3.98	10	3.44		9.16	34	26.9	8
9		2.50 E	8	1.73		5.12	22	9.73		5.84	21	10.6	9
10		3.00 E	7	1.81		4.46	16	6.17		5.14	9	4.00	10
11		3.65 E	7	2.21		3.80	12	3.94	0.4	4.13	4 S	1.43	11
12		3.10 E	9	2.41		5.87	41	20.8		3.42	4	1.18	12
13		2.98 E	9	2.32		12.9	99	110		3.01	3	0.78	13
14	9.6	3.88 A	12 S	4.02		10.8	58	54.1		3.11	4	1.07	14
15		5.11	23	10.2		6.65	38	21.8		3.05	4	1.05	15
16	7.5	5.01	13 S	5.63		4.68	30	12.1		2.98	4	1.03	16
17		4.39	9	3.41	2.5	3.79	26 S	8.51		2.72	4	0.94	17
18		4.11 A	8	2.84		3.50 E	20	6.05		2.54	4	0.88	18
19		4.02 E	6	2.08		4.00 E	14	4.84		2.42	4	0.84	19
20		4.00 E	6	2.07		4.40 E	11	4.18		2.28	4	0.79	20
21		4.10 E	6	2.13	0.5	4.25 E	8 S	2.94		2.12	5	0.73	21
22		4.30 E	6	2.23		4.01	6	2.08		2.01	4	0.69	22
23		3.70 E	5	1.60		3.73	9	2.90		1.94	3	0.50	23
24		2.80 E	6	1.45		4.27	12	4.43		2.33	5	1.01	24
25		2.55 E	6	1.32		3.89	10	3.36		6.48	27	15.1	25
26	5.0	2.27	6 S	1.18		3.43	9	2.67	0.1	18.4	38 S	60.4	26
27		2.05	6	1.06		2.56	7	1.55	0.1	23.4	34 S	68.7	27
28		1.88	6	0.97		2.98	6	1.54		17.2	31	46.1	28
29		1.73	7	1.05		3.21	7	1.94		17.3	40	59.8	29
30		1.61	8	1.11		3.79	10	3.27		13.3	31	35.6	30
31		1.53	8	1.06						9.54	26	21.4	31
TOTAL		93.49		69.40		130.33		310.88		221.86		510.98	TOTAL
MEAN		3.02		2.24		4.34		10.4		7.16		16.5	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	31	
MAXIMUM DAILY	131	ON APR 17
MINIMUM DAILY	3	ON DEC 13

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	8.61	
MAXIMUM DAILY	324	ON APR 18
MINIMUM DAILY	0.21	ON AUG 18

TOTAL SUSPENDED SEDIMENT LOAD 3 924.97 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 42 12 N
LONG 79 18 33 W
DRAINAGE AREA 149 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

O.A.C. FARM GAUGE NO. 5 AT GUELPH - STATION NO. 02GA032

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.010	4	0		0.001	10	0		0.004	8	0	1
2		0.009	4	0	2.0	0.002	20 S	0		0.004	7	0	2
3	4.0	0.008	3 S	0		0.003	19	0		0.004	6	0	3
4	1.0	0.242	55 S	1.15		0.003	14	0		0.004	5	0	4
5		0.039	11	0.04		0.003	9	0	2.0	0.006	7 S	0	5
6		0.023	9	0.02		0.002	7	0		0.006	9	0	6
7	2.0	0.019	7 S	0.01		0.001	5	0		0.005	7	0	7
8		0.014	8	0.01		0.002	6	0		0.004	6	0	8
9	0.5	0.011	11 S	0.01		0.003	19	0		0.004	5	0	9
10		0.008	5	0		0.003	16	0		0.005	5	0	10
11		0.006	5	0		0.003	10	0	2.0	0.011	19 S	0.02	11
12	0.5	0.005	5 S	0	1.0	0.003	5 S	0		0.014	5 S	0.01	12
13		0.004	7	0		0.002	4	0		0.350	54	1.63	13
14		0.004	5	0	2.0	0.002	3 S	0		0.258	44 S	0.98	14
15	0.1	0.006	2 S	0		0.003	6	0		0.140	12	0.15	15
16		0.005	1	0	2.0	0.004	11 S	0		0.089	6 S	0.05	16
17		0.004	2	0		0.005	5	0		0.083	5	0.04	17
18		0.004	2	0		0.005	3	0		0.066	5	0.03	18
19	1.0	0.003	3 S	0		0.004	2	0		0.064	5	0.03	19
20		0.003	3	0		0.004	2	0		0.065	7	0.04	20
21		0.003	2	0		0.004	2	0		0.071	5	0.03	21
22		0.003	2	0	3.0	0.004	3 S	0		0.116	14	0.14	22
23		0.003	5	0		0.003	6	0		0.262	35	0.79	23
24		0.002	4	0	0.5	0.004	8 S	0		0.303	46	1.20	24
25		0.002	7	0		0.004	9	0		0.172	29	0.43	25
26		0.003	10	0		0.004	9	0		0.093	17	0.14	26
27		0.003	10	0		0.004	9	0		0.048	16 S	0.07	27
28		0.003	9	0	1.5	0.004	8 S	0		0.035	15	0.05	28
29	2.0	0.003	9 S	0						0.090	36	0.28	29
30		0.002	8	0						0.489	190	8.03	30
31		0.002	7	0					2.0	1.01	125 S	10.9	31
TOTAL		0.456		1.24		0.089		0		3.875		25.04	TOTAL
MEAN		0.015		0.04		0.003		0		0.125		0.81	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0.174	24	0.36		0.011	5	0	14.0	0.031	10 S	0.03	1
2		0.084	12	0.09	8.0	0.009	8 S	0.01		0.017	6	0.01	2
3	9.0	0.338	89 S	2.60	8.0	0.009	5 S	0		0.014	3	0	3
4		0.074	6	0.04		0.010	8	0.01		0.013	3	0	4
5		0.059	5	0.03		0.010	14	0.01		0.042	13	0.05	5
6		0.054	4	0.02	9.0	0.010	17 S	0.01		0.036	8	0.02	6
7		0.035	3	0.01		0.011	16	0.02	12.0	0.016	3 S	0	7
8		0.034	4	0.01	12.0	0.020	23 S	0.04		0.011	3	0	8
9		0.038	3	0.01	9.5	0.011	4 S	0		0.011	2	0	9
10		0.041	1	0		0.011	5	0		0.009	2	0	10
11		0.045	2	0.01	9.5	0.012	5 S	0.01		0.006	1	0	11
12		0.048	1	0		0.011	5	0		0.004	1	0	12
13	4.5	0.093	8 S	0.06		0.011	5	0		0.003	1	0	13
14		0.049	5	0.02		0.011	5	0	12.0	0.002	1 S	0	14
15		0.042	3	0.01		0.010	5	0		0.017	4	0.01	15
16		0.068	4	0.02		0.009	6	0		0.007	3	0	16
17		0.120	11	0.11		0.009	7	0.01	13.0	0.001	2 S	0	17
18	4.5	0.044	2 S	0.01	11.0	0.009	6 S	0		0.007	7	0	18
19		0.032	3 S	0.01	11.0	0.009	5 S	0	17.0	0.136	28 S	0.33	19
20	4.5	0.157	16 S	0.22	12.5	0.010 A	22 S	0.02		0.014	11	0.01	20
21		0.052	12	0.05		0.007 E	9	0.01	13.0	0.135	14 S	0.16	21
22	4.5	0.031	2 S	0.01		0.011 E	5	0		0.014	5	0.01	22
23	4.5	0.024	4 S	0.01		0.009 E	5	0		0.012	4	0	23
24	6.0	0.020	10 S	0.02		0.007 E	5	0		0.010	4	0	24
25	7.5	0.017	14 S	0.02		0.007 E	5	0		0.009	3	0	25
26		0.015	10	0.01		0.007 E	4	0		0.010	13	0.01	26
27	8.5	0.014	3 S	0	12.0	0.060 E	5 S	0.03	13.5	0.006	11 S	0.01	27
28	8.0	0.013	4 S	0	16.5	0.235 A	7 S	0.14		0.006	9	0	28
29		0.013	3	0		0.021	3	0.01	17.0	0.301	24 S	0.62	29
30	8.0	0.012	1 S	0		0.017	2	0		0.012	5	0.01	30
31					15.0	0.016	1 S	0					31
TOTAL		1.840		3.76		0.610		0.33		0.912		1.28	TOTAL
MEAN		0.061		0.13		0.020		0.01		0.030		0.04	MEAN

ONTARIO

O.A.C. FARM GAUGE NO. 5 AT GUELPH - STATION NO. 02GA032

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	14.0	0.010	4 S	0		0.005	5	0		0.106	56	0.51	1
2		0.008	3	0	15.5	0.006	3 S	0		0.060	137	0.71	2
3		0.007	3	0		0.007	3	0		0.016	73	0.10	3
4	13.5	0.007	2 S	0	16.5	0.486	179 S	7.52		0.008	55	0.04	4
5	14.0	0.007	1 S	0		0.010	24	0.02	14.8	0.005	52 S	0.02	5
6		0.008	1	0		0.009	15	0.01		0.005	48	0.02	6
7		0.008	1	0	17.0	0.007	10 S	0.01		0.007	55	0.03	7
8		0.007	1	0		0.010	40 S	0.03		0.007	36	0.02	8
9		0.008	2	0		0.008	64	0.04		0.007	21	0.01	9
10	15.5	0.007	2 S	0		0.009	54	0.04		0.007	13	0.01	10
11		0.006	16	0.01		0.009	52	0.04		0.006	9	0	11
12	14.8	0.005	21 S	0.01	15.0	0.010	50 S	0.04		0.005	5	0	12
13		0.005	18	0.01		0.011	50	0.05	15.0	0.006	29 S	0.02	13
14		0.005	14	0.01		0.008	50	0.03		0.054	56	0.26	14
15		0.005	10	0	16.0	0.006	50 S	0.03	15.5	0.027	37 S	0.09	15
16		0.005	7	0		0.008	56	0.04		0.010	12	0.01	16
17	18.0	0.049	94 S	0.40		0.010	27	0.02		0.011	7	0.01	17
18		0.013	32	0.04	15.0	0.010	16 S	0.01		0.121	110	1.15	18
19	16.5	0.011	23 S	0.02		0.010	18	0.02		0.008	14	0.01	19
20		0.007	17	0.01		0.011	29	0.03		0.009	10	0.01	20
21		0.007	14	0.01	15.5	0.009	23 S	0.02		0.010	7	0.01	21
22	16.0	0.006	12 S	0.01		0.005	7	0	13.0	0.070	76 S	0.46	22
23		0.005	12	0.01	14.8	0.008	8 S	0.01	13.0	0.241	82 S	1.71	23
24		0.005	13	0.01		0.008	4	0		0.036	11	0.03	24
25		0.005	13	0.01	14.5	0.503	200 S	8.69	13.0	0.223	28 S	0.54	25
26	16.0	0.005	14 S	0.01		0.010	22	0.02		0.018	3	0	26
27		0.006	16	0.01	15.0	0.008	12 S	0.01		0.106	33 S	0.30	27
28		0.206	117	2.08		0.007	7	0	14.9	0.025	7 S	0.02	28
29		0.007	9	0.01		0.004	2	0	14.6	0.017	7 S	0.01	29
30		0.007	9	0.01		0.006	3	0		0.015	8	0.01	30
31		0.006	8	0		0.007	3	0					31
TOTAL		0.453		2.68		1.225		16.73		1.246		6.12	TOTAL
MEAN		0.015		0.09		0.039		0.54		0.041		0.20	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.014	8	0.01	9.0	0.017	7 S	0.01		0.036	3	0.01	1
2		0.010	8	0.01	12.0	0.016	11 S	0.11		0.029	1 S	0	2
3		0.009	8	0.01		0.110	11	0.10		0.061	8	0.04	3
4		0.010	8	0.01		0.143	17	0.21		0.264	20	0.46	4
5	13.0	0.011	8 S	0.01		0.025	9 S	0.02	7.0	0.629	31 S	1.68	5
6		0.010	4	0		0.016	9	0.01		0.236	41	0.84	6
7		0.128	46	0.51		0.016	9	0.01		0.055	30	0.14	7
8		0.021	12	0.02		0.012	9	0.01		0.035	26	0.08	8
9		0.011	7	0.01	7.0	0.012	11 S	0.01		0.027	24	0.06	9
10		0.009	4	0		0.011	11 S	0.01		0.023	23	0.05	10
11		0.016	13	0.02		0.083	21	0.15		0.020	20	0.04	11
12		0.012	6	0.01		0.170	29	0.43		0.019	21	0.03	12
13		0.012	6	0.01		0.027	13	0.03		0.016	20	0.03	13
14		0.011	3	0		0.018	9	0.01	4.0	0.014	20 S	0.02	14
15		0.012	17	0.02		0.017	6	0.01		0.042	22	0.08	15
16		0.009	21	0.02		0.014	5	0.01		0.314	36	0.98	16
17	11.0	0.007	21 S	0.01		0.014	4	0	4.0	0.032	17 S	0.05	17
18		0.008	22	0.02		0.014	3	0		0.022	15	0.03	18
19		0.009	19	0.01		0.014	3	0		0.020	14	0.02	19
20	11.5	0.013	17 S	0.02		0.022	9	0.02		0.019	13	0.02	20
21	10.0	0.010	6 S	0.01		0.267	31	0.72		0.018	12	0.02	21
22		0.009	8	0.01	3.0	0.034	12 S	0.04		0.016	12	0.02	22
23		0.007	13	0.01		0.190	17	0.28		0.016	12	0.02	23
24	9.0	0.006	17 S	0.01		0.149	25	0.32		0.339	29	0.85	24
25		0.006	18	0.01		0.031	12	0.03		0.634	47	2.57	25
26	10.0	0.007	15 S	0.01		0.025	10	0.02		0.118	27	0.28	26
27		0.007	14	0.01		0.021	8	0.01		0.048	12	0.05	27
28		0.008	12	0.01		0.026	7	0.02	8.5	0.139	15 S	0.18	28
29		0.008	10	0.01	2.0	0.236	27 S	0.55		0.043	8	0.03	29
30		0.007	8	0		0.057	9	0.04		0.027	8	0.02	30
31		0.006	7	0						0.021	7	0.01	31
TOTAL		0.423		0.82		1.905		3.19		3.332		8.71	TOTAL
MEAN		0.014		0.03		0.063		0.11		0.107		0.28	MEAN

SUMMARY FOR THE YEAR 1982

TOTAL SUSPENDED SEDIMENT LOAD 69.90 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	50	
MAXIMUM DAILY	200	ON AUG 25
MINIMUM DAILY	1	ON JAN 16

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	0.19	
MAXIMUM DAILY	10.9	ON MAR 31
MINIMUM DAILY	0	ON JAN 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 31 53 N
LONG 80 18 18 W
DRAINAGE AREA 2.51 km^2
NATURAL FLOW

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

SOUTH NATION RIVER AT CASSELMAN - STATION NO. 02LB013

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		8.79				3.27				2.20 B			1
2		7.23				2.67				2.19 B			2
3		5.92				2.65 B				2.18 B			3
4		6.53				2.60 B				2.17 B			4
5		11.8				2.73 B				2.16 B			5
6		18.4				2.75 B				2.15 B			6
7		21.8				2.68 B				2.14 B			7
8		19.7				2.62 B				2.13 B			8
9		17.6				2.57 B				2.12 B			9
10		16.8 B				2.52 B				2.30 B			10
11		15.6 B				2.50 B				3.05 B			11
12		14.9 B				2.48 B				3.57			12
13		14.1 B				2.46 B				6.21			13
14		13.0 B				2.44 B				10.1			14
15		11.9 B				2.42 B				14.6			15
16		12.3 B				2.39				21.6			16
17		9.80 B				2.38 B				28.6			17
18		8.33 B				2.44 B				32.9			18
19		7.19 B				2.50 B				41.7			19
20		6.18 B				2.47 B				55.6			20
21		4.91 B				2.43 B				72.0			21
22		4.66 B				2.40 B			0.4	71.6	22 S	136	22
23		4.66 B				2.37 B			2.0	74.6	21 S	135	23
24		4.28 B				2.34 B				79.2	22	151	24
25		4.20 B				2.31 B			1.0	91.8	25 S	198	25
26		4.13 B				2.28 B			1.0	149	71 S	914	26
27		3.54				2.25 B				157	87	1 180	27
28		3.13				2.22 B				160	71	982	28
29		2.87							1.0	162	59 S	826	29
30		2.95							1.0	177	60 S	918	30
31		2.83							0.8	355	117 S	3 590	31
TOTAL		290.03				70.14				1 788.87			TOTAL
MEAN		9.36				2.51				57.7			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	1.0	846	386 S	28 200	14.0	15.4	20 S	26.6		3.82 E			1
2		575	129	6 410		13.0	19	21.3		3.28 E			2
3	0.5	453	91 S	3 560		10.8	19	17.7		2.75 A			3
4		410	134	4 750		8.30	18	12.9		3.23			4
5		262	62	1 400		8.36	17	12.3		3.63			5
6		199	39	671		7.50	16	10.4		4.45			6
7		121	39	408		7.00	14	8.47		4.85			7
8		83.8	39	282		6.52	14	7.89		8.15			8
9	1.0	67.5	34 S	198		12.0	29	30.1		11.0			9
10	1.0	66.8	37 S	214		19.5	43	72.4		9.93			10
11	2.0	76.4	41 S	271		19.0	32	52.5		7.99			11
12	2.0	78.6	35 S	238		17.5	17	25.7		6.21			12
13	3.0	105	48 S	435	17.0	15.4	12 S	16.0		4.85			13
14	3.0	141	86 S	1 050		11.7	11	11.1		3.80			14
15	4.0	117	48 S	485		10.2	11	9.69		3.15			15
16	7.0	107	36 S	333		9.69	10	8.37		3.18			16
17		113	60	586		9.85	11	9.36		2.63			17
18		119	62	637		8.88	12	9.21		2.56			18
19	8.0	80.8	30 S	209		8.61	12	8.93		2.55			19
20		68.7	34	202		7.57	12	7.85		2.56			20
21		149	139	1 790		7.31	11	6.95		3.36			21
22		96.3	59	491		6.88	10	5.94		5.98			22
23	5.0	63.4	31 S	170		6.93	10	5.99		8.11			23
24		48.5	27	113		6.21	9	4.83		8.26			24
25		39.9	24	82.7		6.58	11	6.25		7.48			25
26	12.5	32.6	22 S	62.0		6.41	9	4.98		6.76			26
27		28.5	20	49.2		6.17	10	5.33		6.38			27
28		25.3	20	43.7		6.11	9	4.75		5.58			28
29		21.6	20	37.3		5.54 E	9	4.31		4.58			29
30		18.2	20	31.4		4.74 E	10	4.10		3.85			30
31						4.05 E	10	3.50					31
TOTAL		4 613.9		53 409.3		293.71		435.70		154.87			TOTAL
MEAN		154		1 780		9.47		14.1		5.16			MEAN

ONTARIO

SOUTH NATION RIVER AT CASSELMAN - STATION NO. 02LB013

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		3.07				2.10				2.69			1
2		2.72				2.11				3.27			2
3		2.18				2.82				2.99			3
4		2.09				4.05				2.83			4
5		1.93				2.76				2.99			5
6		1.92				2.12				3.28			6
7		1.92				2.15				3.46			7
8		1.63				2.07				3.84			8
9		1.30				1.76				3.74			9
10		1.05				1.36				3.41			10
11		1.49				1.12				3.15			11
12		3.03				1.03				3.00			12
13		1.96				1.17				3.16			13
14		1.89				1.48				2.61			14
15		1.59				1.52				2.54			15
16		1.34				1.68				2.19			16
17		1.18				1.05				2.18			17
18		1.20				0.985				2.64			18
19		1.49				0.916				2.13 E			19
20		1.39				0.384				2.22 E			20
21		1.67				0.368				2.38 A			21
22		1.71				0.405				2.48			22
23		1.58				0.645				2.97			23
24		1.60				0.777				2.89			24
25		1.47				6.90				2.75 E			25
26		0.978				8.52				2.60 E			26
27		0.969				6.95				2.67 E			27
28		0.985				5.45				2.75 E			28
29		1.42				3.73				2.83 E			29
30		1.05				3.09				2.90 E			30
31		1.98				2.58							31
TOTAL		51.782				74.050				85.14			TOTAL
MEAN		1.67				2.39				2.84			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		2.98 E				2.73				59.2			1
2		3.09				2.81				75.8			2
3		3.68				3.23				82.2			3
4		3.78				15.5				112			4
5		3.51				87.3				95.2			5
6		3.28				79.8				75.5			6
7		3.13				56.2				66.0			7
8		3.42				82.5				49.3			8
9		3.57				29.4				34.7			9
10		4.26				21.4				21.1			10
11		4.58				18.1				19.9			11
12		5.06				14.4				15.7			12
13		4.77				17.0				11.4			13
14		4.17				17.5				9.54			14
15		3.90				16.2				8.96			15
16		3.90 E				14.0				36.7			16
17		4.13 A				12.7				83.6			17
18		3.97				11.7				55.0			18
19		4.18				11.3				36.6			19
20		4.28				10.3				25.0			20
21		3.33				10.0 E				17.6			21
22		3.00				10.4 A				12.4			22
23		3.09				11.5				10.5			23
24		2.76				16.3				10.1			24
25		2.79				26.6				21.3			25
26		2.71				25.3				160			26
27		3.21				20.9				110			27
28		3.26				16.8 E				82.9			28
29		3.27				16.7 E				120			29
30		2.96				26.2				84.5			30
31		2.45								50.0			31
TOTAL		110.48				664.77				1 652.70			TOTAL
MEAN		3.56				22.2				53.3			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 19 01 N
LONG 75 05 32 W
DRAINAGE AREA 2 410 km^2
REGULATED FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

SOUTH NATION RIVER AT LENIEUX - STATION NO. 02LB015

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27									1.0		85 S		27
28									1.0		77 S		28
29									1.0		78 S		29
30									1.0		76 S		30
31									1.0		244 S		31
TOTAL MEAN													TOTAL MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	1.0		740 S				35				40		1
2	1.0		271 S				34				40		2
3	1.0		159 S				33						3
4	1.0		133 S				30						4
5	1.0		97 S				29						5
6			74				28						6
7			66				31						7
8			57				43						8
9			48				76						9
10	1.0		37 S		12.0		39 S						10
11			59				36						11
12			55				33						12
13	1.0		166 S				35						13
14			173				38						14
15	4.0		95 S				39						15
16	2.0		71 S				38						16
17			66				41						17
18			58				41						18
19			49				42						19
20			67				42						20
21			133				43						21
22	2.0		69 S		15.0		44 S						22
23			63				43						23
24			56				42						24
25			53				44						25
26			47				55						26
27			43				42						27
28			39				42						28
29			36				41						29
30	10.0		34 S				41						30
31							40						31
TOTAL MEAN													TOTAL MEAN

TYPE OF GAUGE - MANUAL
LOCATION - LAT 45 23 42 W
LONG 75 03 56 W

REGULATED FLOW

S - SAMPLE(S) COLLECTED THIS DAY

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		14.3 B	12	14.8		6.65 B	12	6.89		5.08 B	12	5.27	1
2		13.5 B	12	14.0		6.48 B	12	6.72		5.06 B	12	5.25	2
3		15.0 B	12	15.6		6.30 B	12	6.53		5.05 B	12	5.24	3
4		17.0 B	12	17.6		6.15 B	12	6.38		5.05 B	12	5.24	4
5		19.0 B	12	19.7		6.00 B	12	6.22		5.03 B	12	5.22	5
6		21.0 B	12	21.8		6.60 B	12	6.84		5.02 B	12	5.20	6
7		26.8 B	12	27.8		6.35 B	12	6.58		5.01 B	12	5.19	7
8		28.0 B	12	29.0		6.10 B	12	6.32		5.00 B	12	5.18	8
9		26.5 B	12	27.5		5.95 B	12	6.17		5.25 B	12	5.44	9
10		23.5 B	12	24.4		5.78 B	12	5.99		5.50 B	12	5.70	10
11		21.0 B	12	21.8		5.55 B	12	5.75		6.05 B	12	6.27	11
12	0.1	18.2 B	12 S	18.9		5.40 B	12	5.60		6.77 B	14	8.19	12
13		17.4 B	12	18.0		5.30 B	12	5.50		7.15 B	16	9.88	13
14		15.9 B	12	16.5		5.25 B	12	5.44		10.5 B	19	17.2	14
15		14.5 B	12	15.0		5.20 B	12	5.39		17.0 B	22	32.3	15
16		13.3 B	12	13.8		5.15 B	12	5.34		25.5 B	28	61.7	16
17		12.2 B	12	12.6		5.10 B	12	5.29		43.0 B	41	152	17
18		11.2 B	12	11.6		5.45 B	12	5.65		51.0 B	33	145	18
19		10.3 B	12	10.7		5.90 B	12	6.12		60.0 B	25	130	19
20		9.60 B	12	9.95		5.55 B	12	5.75		75.0 B	25	162	20
21		9.10 B	12	9.43		5.45 B	12	5.65		100 B	28	242	21
22		8.70 B	12	9.02		5.35 B	12	5.55		118 B	29	296	22
23		8.45 B	12	8.76		5.30 B	12	5.50		123 B	34	361	23
24		8.20 B	12	8.50		5.25 B	12	5.44		125 B	33	356	24
25		8.00 B	12	8.29		5.20 B	12	5.39		138 B	48	572	25
26		7.80 B	12	8.09		5.16 B	12	5.35		186	118	1 900	26
27		7.60 B	12	7.88		5.13 B	12	5.32		245	139	2 940	27
28		7.40 B	12	7.67		5.10 B	12	5.29		242	103	2 150	28
29		7.25 B	12	7.52						234	103	2 080	29
30		7.05 B	12	7.31					0.1	232	90 S	1 800	30
31		6.90 B	12	7.15					0.1	302	143 S	3 730	31
TOTAL		434.65		450.67		158.15		163.96		2 398.02		17 204.47	TOTAL
MEAN		14.0		14.5		5.65		5.86		77.4		555	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	0.1	562 B	654 S	31 800		25.3	41	89.6		8.26	34	24.3	1
2		754 B	313	20 400		22.6	40	78.1	21.5	8.09	36 S	25.2	2
3	0.5	875	210 S	15 900		20.2	38	66.3		7.43	39	25.0	3
4	0.1	786	162 S	11 000		18.2	35	55.0		7.25	40	25.1	4
5	0.1	668	146 S	8 430	15.0	17.2	33 S	49.0		7.25	39	24.4	5
6		551	141	6 710		16.3	30	42.2		7.64	38	25.1	6
7		383	137	4 530		15.6	27	36.4		8.78	38	28.8	7
8		229	132	2 610		14.6	24	30.3		10.1	38	33.2	8
9		163	113	1 590		22.8	30	59.1		13.4	51	59.0	9
10		142	167	2 050	17.0	37.9	46 S	151		14.0	44	53.2	10
11		160	189	2 610		32.9	36	102		11.9	40	41.1	11
12		162	104	1 460		27.7	36	86.2		9.98	39	33.6	12
13		193	251	4 190		24.6	36	76.5		7.34	37	23.5	13
14	3.0	273	387 S	9 130		21.7	36	67.5		5.47	38	18.0	14
15	4.5	249	177 S	3 810		18.6	35	56.2		5.42	41	19.2	15
16	4.0	221	144 S	2 750		16.1	34	47.3		6.75	41	23.9	16
17		221	266	5 080		12.9	34	37.9		6.55	38	21.5	17
18		237	406	8 310		11.6	35	35.1		5.57	40	19.2	18
19	8.0	174	295 S	4 430		11.1	36	34.5		5.14	40	17.8	19
20	7.0	120	291 S	3 020		10.9	36	33.9		5.49	39	18.5	20
21	6.0	203	291 S	5 100		10.2	37	32.6		6.35	39	21.4	21
22		201	276	4 790		9.29	37	29.7		9.64	45	37.5	22
23		128	217	2 400		8.60	37	27.5		12.9	66	73.6	23
24		88.2	138	1 050		9.06	37	29.0		14.6	61	76.9	24
25		70.4	103	627		10.2	38	33.5		13.5	40	46.7	25
26		54.3	75	352		10.4	38	34.1		12.5	36	38.9	26
27		44.6	54	208		9.71	37	31.0		12.0	37	38.4	27
28	12.0	39.3	43 S	146		9.07	35	27.4		9.93	37	31.7	28
29		33.5	43	124		9.40	35	28.4		8.12	36	25.3	29
30		29.1	42	106		8.64	35	26.1		7.04	39	23.7	30
31						8.16	34	24.0					31
TOTAL		8 018.4		164 713		501.53		1 557.4		268.39		973.7	TOTAL
MEAN		267		5 490		16.2		50.2		8.95		32.5	MEAN

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		6.48	39	21.8		2.85	42	10.3		4.55	50	19.7	1
2		5.47	40	18.9		3.14	43	11.7		7.49	80	51.8	2
3		5.06	39	17.1		3.17	43	11.8		8.96	74	57.3	3
4		4.01	39	13.5		3.80	54	17.7		7.72	47	31.3	4
5		3.62	40	12.5		4.32	54	20.2		6.90	44	26.2	5
6		3.07	38	10.1		3.27	42	11.9		6.53	47	26.5	6
7		2.65	36	8.24		2.78	43	10.3		8.95	62	47.9	7
8		2.09	34	6.14		3.39	42	12.3		8.87	53	40.6	8
9		1.63	32	4.51		2.78	42	10.1		7.59	40	26.2	9
10		1.48	30	3.84		2.20	42	7.98		6.37	38	20.9	10
11		2.33	33	6.64		1.91	42	6.93		5.18	38	17.0	11
12		5.98	62	32.0		1.67	41	5.92		4.23	36	13.2	12
13		6.41	64	35.4		1.68	41	5.95		3.87	33	11.0	13
14		4.50	45	17.5		1.64	40	5.67		3.08	36	9.58	14
15	23.0	3.73	42 S	13.5		1.10	40	3.80		2.75	37	8.79	15
16		3.33	43	12.4		1.10	40	3.80		2.87	36	8.93	16
17		2.89	38	9.49		1.00	40	3.46		2.80	38	9.19	17
18		2.83	36	8.80	24.0	1.08	41 S	3.83		3.03	39	10.2	18
19		2.82	40	9.75		1.17	42	4.25		3.49	39	11.8	19
20		2.65	38	8.70		1.04	41	3.68		3.28	39	11.1	20
21		2.47	39	8.32		1.08	42	3.92		3.10	38	10.2	21
22		2.27	41	8.04		0.961	43	3.57		2.88	36	8.96	22
23		1.74	42	6.31		0.971	42	3.52		2.51	35	7.59	23
24		1.75	41	6.20		0.982	39	3.31		3.11	34	9.14	24
25		1.67	40	5.77		6.03	149	77.6		3.21	34	9.43	25
26		1.56	41	5.53		25.4	292	641		3.24	36	10.1	26
27		1.64	42	5.95		17.8	138	212		3.66	37	11.7	27
28		1.65	42	5.99		12.8	75	82.9		5.01	43	18.6	28
29		1.49	42	5.41		9.38	57	46.2		5.93	52	26.6	29
30		1.53	42	5.55		6.79	57	33.4		6.76	51	29.8	30
31		1.88	42	6.82		5.25	52	23.6					31
TOTAL		92.68		340.70		132.534		1 302.59		147.92		601.31	TOTAL
MEAN		2.99		11.0		4.28		42.0		4.93		20.0	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		7.25	53	33.2		3.41	18 S	5.30		61.9	69	369	1
2		10.4	69	62.0		3.37	20	5.82		117	115	1 160	2
3		10.7	75	69.3		3.61	23	7.17		135	75	875	3
4		9.20	58	46.1		16.9	63	92.0		186	277	4 450	4
5		7.67	48	31.8		102	303	2 670		183	142	2 250	5
6		6.35	32	17.6		139	223	2 680		136	61	717	6
7		4.89	25	10.6		92.0	64	509		115	36	358	7
8		4.92	23	9.78		61.9	23 S	123		85.3	31	228	8
9		4.97	20	8.59		41.3	17	60.7		56.5	31	151	9
10		5.59	21	10.1		31.3	18	48.7		34.7	30	89.9	10
11		6.27	22	11.9		26.5	17	38.9		29.8	27	69.5	11
12		6.02	23 S	12.0		25.3	19	41.5		26.3	25	56.8	12
13		6.23	26	14.0		28.8	23	57.2		21.2	22	40.3	13
14	11.0	6.62	35 S	20.0		31.0	28	75.0		17.7	19	29.1	14
15		7.75	32	21.4		26.9	20 S	46.5	0.1	16.0	18 S	24.9	15
16		8.68	27 S	20.2		23.4	18	36.4		25.0	58	125	16
17		8.71	24	18.1		21.6	19	35.5		108	321	3 000	17
18		8.10	25 S	17.5		20.2	18	31.4		102	149	1 310	18
19		6.91	26	15.5		18.6	18	28.9		64.1	74	410	19
20		6.63	25	14.3		18.3	18	28.5		37.7	53	173	20
21		5.51	23	10.9		18.6	19	30.5		27.9	42	101	21
22		4.57	22	8.69		25.2	21 S	45.7		21.2	34	62.3	22
23		4.24	22	8.06		26.9	25	58.1		18.3	28	44.3	23
24		4.10	20	7.08	5.0	31.8	48 S	132		16.6	24	34.4	24
25		3.75	20 S	6.48		41.8	58	209		18.8	29	47.1	25
26		3.37	18	5.24		38.2	34	112		144	311	3 870	26
27		3.37	17 S	4.95		30.3	27	70.7		228	260	5 120	27
28		3.48	17	5.11		23.8	25	51.4		152	61	801	28
29		3.55	19	5.83		24.1	22	45.8		172	133	1 980	29
30		3.71	19	6.09		29.2	27	68.1		166	101	1 450	30
31		3.53	18	5.49						107	43	398	31
TOTAL		187.08		537.89		1 025.29		7 444.79		2 630.0		29 794.6	TOTAL
MEAN		6.03		17.4		34.2		248		84.8		961	MEAN

SUMMARY FOR THE YEAR 1982

TOTAL SUSPENDED SEDIMENT LOAD 225 085.08 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	163	
MAXIMUM DAILY	654	ON APR 01
MINIMUM DAILY	12	ON JAN 01

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	617	
MAXIMUM DAILY	31 800	ON APR 01
MINIMUM DAILY	3.31	ON AUG 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 45 30 23 N
LONG 74 57 20 W
DRAINAGE AREA 3 810 km^2
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

SUSPENDED SEDIMENT FOR 1982

JAN					FEB				MAR				
DAY	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1		1.24	5	0.54		0.922	8	0.64		0.849	6	0.44	1
2		1.35	11	1.28		0.913	10	0.79		0.846	7	0.51	2
3		1.34	6	0.69		0.902	6	0.47		0.789	7	0.48	3
4		1.24	4	0.43	1.0	1.68	17 S	2.47		0.777	8	0.54	4
5		2.05	20	3.54		1.46	11	1.39		0.786	7	0.48	5
6	2.0	1.86	7 S	1.12		1.22	4	0.42	3.0	0.812	7 S	0.49	6
7	1.5	1.46	4 S	0.50		1.10	4	0.38		0.766	5	0.33	7
8		1.40	5	0.60		1.05	4	0.36		1.32	18	2.05	8
9		1.37	6	0.71		1.03	3	0.27		1.21	16	1.67	9
10		1.33	5	0.57		1.06	7	0.64	3.0	0.988	9 S	0.77	10
11		1.33	5	0.57		1.01	6	0.52		0.902	9	0.70	11
12		1.33	6	0.69		0.996	4	0.34		1.50	20	2.59	12
13		1.33	5	0.57		0.982	5	0.42	2.0	1.79	18 S	2.78	13
14	1.0	1.32	6 S	0.68		1.01	6	0.52	3.0	2.04	31 S	5.46	14
15		1.66	13	1.86		0.962	4	0.33		1.95	19	3.20	15
16		1.43 A	12	1.48		0.966	5	0.42		1.59	7	0.96	16
17		1.30 E	5	0.56		0.929	5	0.40		1.52	5	0.66	17
18		1.23 E	4	0.43		0.901	6	0.47		1.51	5	0.65	18
19		1.15 E	6	0.60		0.888	6	0.46		1.47	5	0.64	19
20		1.08 A	6	0.56		0.882	6	0.46	4.5	1.45	5 S	0.63	20
21	1.0	1.06	6 S	0.55		1.06	12	1.10		1.43	5	0.62	21
22		1.01	4	0.35		1.16	14	1.40		1.42	5	0.61	22
23		1.01	5	0.44		0.980	8	0.68		1.34	4	0.46	23
24		1.15	9	0.89		0.932	7	0.56		1.28	4	0.44	24
25		1.06	6	0.55		0.848	8	0.59		1.40	8	0.97	25
26		0.961	5	0.42		0.835	6	0.43	4.5	1.79	18 S	2.78	26
27		0.956	4	0.33		0.878	5	0.38		2.26	25	4.88	27
28	1.0	0.922	5 S	0.40		0.862	5	0.37		1.84	16	2.54	28
29		0.904	5	0.39						1.47	10	1.27	29
30		0.851	5	0.37						1.51	11	1.44	30
31		0.855	5	0.37						1.58	12	1.64	31
TOTAL		38.539		23.04		28.418		17.68		42.185		43.68	TOTAL
MEAN		1.24		0.74		1.01		0.63		1.36		1.41	MEAN

APR					MAY				JUN				
DAY	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	TEMP. (°C)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	4.0	2.54	16 S	3.51	6.0	1.93	64 S	10.7		0.961	1	0.08	1
2		2.27	6	1.18		1.76	18	2.74		0.961	2	0.17	2
3		1.80	6	0.93	7.0	1.76	6 S	0.91		0.978	6	0.51	3
4	3.0	1.80	9 S	1.40		1.78	8	1.23		0.859	2	0.15	4
5		1.85	8	1.28		1.78	8	1.23	14.0	0.829	2 S	0.14	5
6		1.69	7	1.02		1.68	4	0.58		0.809	2	0.14	6
7		1.72	7	1.04		1.63	4	0.56		0.785	2	0.14	7
8	3.5	1.76	9 S	1.37	9.0	1.60	5 S	0.69		0.800	4	0.28	8
9		1.61	10	1.39		1.50	4	0.52		0.819	9	0.64	9
10	5.0	1.55	6 S	0.80		1.48	3	0.38		0.757	4	0.26	10
11		1.56	9	1.21		1.47	4	0.51		0.738	4	0.26	11
12		1.58	9	1.23		1.48	8	1.02	13.0	0.738	4 S	0.26	12
13		1.52	6	0.79		1.43	4	0.49		0.728	4	0.25	13
14	5.0	1.92	14 S	2.32	6.0	1.93	10 S	1.67	11.0	0.733	4 S	0.25	14
15		1.74	10	1.50		1.74	7	1.05		0.984	18	1.53	15
16		1.65	17	2.42		1.41	7	0.85		0.829	7	0.50	16
17		1.96	50	8.47		1.35	6	0.70	11.0	0.843	3 S	0.22	17
18		2.51	60	13.0		1.31	5	0.57		0.752	3	0.19	18
19	5.0	2.18	15 S	2.83		1.29	5	0.56		0.700	3	0.18	19
20		1.81	7	1.09		1.42	10	1.23		0.776	8	0.54	20
21		1.77	6	0.92	11.0	1.41	5 S	0.61	12.0	0.761	9 S	0.59	21
22		1.82	8	1.26		1.25	3	0.32		0.719	5	0.31	22
23		1.69	6	0.88		1.21	3	0.31		0.747	9	0.58	23
24		1.65	7	1.00		1.16	3	0.30	13.0	1.11	25 S	2.40	24
25		1.62	7	0.98		1.13	4	0.39		0.771	5	0.33	25
26		1.60	8	1.11		1.13	3	0.29		0.687	4	0.24	26
27	7.0	1.62	10 S	1.40		1.10	2	0.19		0.646	4	0.22	27
28		2.19	34	6.43	14.0	1.03	1 S	0.09		0.637	4	0.22	28
29	4.0	3.85	68 S	22.6		1.00	2	0.17		0.633	5	0.27	29
30	5.0	2.28	30 S	5.91		0.989	1	0.09	13.0	1.17	17 S	1.72	30
31						0.995	1	0.09					31
TOTAL		57.11		91.27		48.138		31.04		24.260		13.57	TOTAL
MEAN		1.90		3.04		1.42		1.00		0.809		0.45	MEAN

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.819	5	0.35		0.621	6	0.32		0.404	4	0.14	1
2		0.673	4	0.23		0.635	10	0.55	10.0	0.777	30 S	2.01	2
3		0.637	5	0.28		0.587	5	0.25		0.728	7	0.44	3
4		0.619	5	0.27		0.573	5	0.25		0.652	5	0.28	4
5		0.610	4	0.21		0.588	8	0.41		0.673	5	0.20	5
6		0.610	4	0.21	11.0	0.610	17 S	0.90		0.429	4	0.15	6
7		0.601	5	0.26		0.574	12	0.60		0.389	3	0.10	7
8		0.588	4	0.20		0.542	8	0.37		0.390	3	0.10	8
9	18.0	0.579	4 S	0.20		0.534	7	0.32		0.386	4	0.13	9
10		0.565	4	0.20		0.633	11	0.60		0.387	5	0.17	10
11		0.547	4	0.19		0.612	8	0.42		0.369	6	0.19	11
12		0.565	4	0.20	11.0	0.544	4 S	0.19		0.368	5	0.16	12
13		0.561	4	0.19		0.590	6	0.31		0.360	5	0.16	13
14		0.538	4	0.19		0.574	8	0.40		0.378	5	0.16	14
15		0.525	4	0.18		0.523	7	0.32		0.371	4	0.13	15
16		0.579	11	0.55		0.502	6	0.26		0.397	7	0.24	16
17	18.0	0.516	8 S	0.36		0.483	5	0.21	13.0	0.403	11 S	0.38	17
18		0.498	8	0.34		0.470	4	0.16		0.380	8	0.26	18
19		0.489	6	0.25		0.449	3	0.12		0.378	6	0.20	19
20		0.733	35	2.22	11.0	0.446	4 S	0.15		0.365	5	0.16	20
21	18.0	1.08	34 S	3.17		0.451	3	0.12		0.448	7	0.27	21
22		0.705	9	0.55		0.439	3	0.11		0.463	12	0.48	22
23		0.570	6	0.30		0.420	2	0.07	11.0	0.615	57 S	3.03	23
24		0.561	5	0.24		0.448	2	0.08		0.509	10	0.44	24
25		0.529	5	0.23		0.487	4	0.17		0.429	5	0.19	25
26		0.529	6	0.27		0.510	5	0.22		0.392	4	0.14	26
27		0.502	6	0.26	10.0	0.454	4 S	0.16		0.376	3	0.10	27
28		0.489	5	0.21		0.423	4	0.15		0.396	3	0.10	28
29		1.07	37	3.42		0.410	4	0.14		0.369	5	0.16	29
30	17.0	0.849	9 S	0.66		0.402	4	0.14		0.363	5	0.16	30
31		0.655	7	0.40		0.399	4	0.14					31
TOTAL		19.391		16.79		15.933		8.61		13.144		10.83	TOTAL
MEAN		0.625		0.54		0.514		0.28		0.438		0.36	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	10.0	0.356	5 S	0.15		0.341	3	0.09		0.468	10	0.40	1
2	9.0	0.596	21 S	1.08		0.322	4	0.11		0.419	10	0.36	2
3		0.562	18	0.87		0.329	3	0.09	3.0	0.413	16 S	0.57	3
4		0.424	8	0.29		0.326	4	0.11		0.605	21	1.10	4
5		0.380	4	0.13		0.314	4	0.11		0.560	16	0.77	5
6		0.363	5	0.16	6.0	0.312	6 S	0.16		0.451	11	0.43	6
7		0.366	6	0.19		0.299	5	0.13		0.527	9	0.41	7
8	9.0	0.360	5 S	0.16		0.287	5	0.12		0.464	8	0.32	8
9		0.352	4	0.12		0.313	5	0.14		0.446	10	0.39	9
10		0.354	3	0.09		0.348	6	0.18	4.0	0.443	14 S	0.54	10
11		0.347	2	0.06		0.338	6	0.18		0.454	11	0.43	11
12		0.335	4	0.12	5.0	0.366	12 S	0.38		0.475	11	0.45	12
13		0.355	4	0.12		0.394	11	0.37		0.463	11	0.44	13
14		0.358	3	0.09		0.603	20	1.04		0.434	11	0.41	14
15		0.480	9	0.37		0.438	10	0.38		0.436	10	0.38	15
16		0.438	4	0.15	4.5	0.662	10 S	0.57		0.464	10	0.40	16
17		0.388	3	0.10		0.476	4	0.16	2.0	1.17	37 S	3.58	17
18		0.364	2	0.06		0.392	4	0.14		0.659	10	0.57	18
19		0.341	1	0.03	4.0	0.360	14 S	0.44		0.545	5	0.24	19
20	8.0	0.338	2 S	0.06		0.343	7	0.21		0.676	11	0.64	20
21		0.336	2	0.06		0.335	6	0.17		1.20	46	4.77	21
22	7.0	0.340	3 S	0.09		0.341	4	0.12		0.795	15	1.03	22
23		0.336	3	0.09		0.355	2	0.06	1.0	0.660	8 E	0.46	23
24		0.339	4	0.12		0.357	3	0.09		0.637	7	0.39	24
25		0.331	4	0.11		0.407	9	0.32		0.647	11	0.61	25
26		0.336	4	0.12	4.0	0.355	4 S	0.12		1.32	55	6.27	26
27		0.336	4	0.12		0.380	2	0.07		1.07	13	1.20	27
28		0.334	4	0.12		0.346	2	0.06		0.850	15	1.10	28
29	7.0	0.333	4 S	0.12		0.373	5	0.16	2.0	1.29	26 S	2.90	29
30		0.338	3	0.09		0.682	24	1.41	2.0	1.01	12 S	1.05	30
31		0.356	3	0.09						0.846	8	0.58	31
TOTAL		11.572		5.53		11.494		7.69		20.847		33.19	TOTAL
MEAN		0.373		0.18		0.383		0.26		0.672		1.07	MEAN

SUMMARY FOR THE YEAR 1982

TOTAL SUSPENDED SEDIMENT LOAD 302.92 t

SUSPENDED SEDIMENT CONCENTRATION(mg/L)			SUSPENDED SEDIMENT LOAD(t/d)		
MEAN	11		MEAN	0.83	
MAXIMUM DAILY	68	ON APR 29	MAXIMUM DAILY	22.6	ON APR 29
MINIMUM DAILY	1	ON MAY 28	MINIMUM DAILY	0.03	ON OCT 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 46 12 07 N
LONG 62 39 23 W
DRAINAGE AREA 33.1 km^2
NATURAL FLOW

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.292	7	0.18		0.187	6	0.10		0.221	8	0.15	1
2		0.306	7	0.19		0.188	6	0.10		0.231	8	0.16	2
3		0.284	7	0.17		0.180	8	0.12		0.247	10	0.21	3
4		0.278	8	0.19		0.366	12	0.38		0.227	11	0.22	4
5		0.414	13	0.47	1.0	0.336	8 S	0.23	3.0	0.267	11 S	0.25	5
6	2.0	0.413	11 S	0.39		0.327	5	0.14		0.267	8	0.18	6
7	2.0	0.334	8 S	0.23		0.262	6	0.14		0.252	4	0.09	7
8		0.305	7	0.18		0.267	6	0.19		0.261	5	0.11	8
9		0.289	7	0.17		0.266	6	0.14		0.248	5	0.11	9
10		0.298	9	0.20		0.267	6	0.14		0.235	4	0.08	10
11		0.289	8	0.20		0.248	6	0.13		0.246	4	0.08	11
12		0.257	7	0.16		0.233	6	0.12	3.0	0.285	4 S	0.10	12
13		0.245	7	0.15		0.247	6	0.13		0.304	4	0.11	13
14		0.248	6	0.13		0.241	5	0.10		0.382	11	0.36	14
15	2.0	0.259	8 S	0.18		0.235	4	0.08	1.0	0.439	11 S	0.42	15
16		0.251	6	0.13		0.242	4	0.08		0.357	7	0.22	16
17		0.260 B	6	0.13		0.248	4	0.09		0.333	7	0.20	17
18		0.250 B	10	0.22		0.219	4	0.08		0.318	7	0.19	18
19		0.239 B	10	0.21	1.0	0.221	4 S	0.08		0.331	6	0.17	19
20		0.229 B	8	0.16		0.233	3	0.06		0.304	6	0.16	20
21	0.5	0.220	7 S	0.13		0.248	4	0.09		0.295	7	0.18	21
22		0.207	6	0.11		0.241	4	0.08		0.302	8	0.21	22
23		0.203	7	0.12		0.245	4	0.08		0.295	8	0.20	23
24		0.230	9	0.18		0.238	3	0.06	6.5	0.266	7 S	0.16	24
25		0.234	10	0.20	0.5	0.235 B	3 S	0.06		0.278	7	0.17	25
26		0.204	6	0.11		0.231 B	5	0.10		0.415	9	0.32	26
27		0.212	6	0.11		0.228 B	2	0.04		0.840	20	1.45	27
28		0.207	5	0.09		0.223 B	5	0.10		0.655	17	0.96	28
29	0.5	0.214	5 S	0.09					5.0	0.460	6 S	0.24	29
30		0.201	5	0.09						0.451	4	0.16	30
31		0.185	5	0.08						0.435	5	0.19	31
TOTAL		8.053		5.35		6.902		3.19		10.445		7.81	TOTAL
MEAN		0.260		0.17		0.246		0.11		0.337		0.25	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1.62	12	1.68		1.18	11	1.12		0.339	4	0.12	1
2		2.11	20	3.65		1.29	10	1.11		0.314	4	0.11	2
3		0.888	8	0.61	11.5	1.08	9 S	0.84		0.311	4	0.11	3
4		0.962	5	0.42		0.923	8	0.64		0.299	4	0.10	4
5	5.5	0.994	6 S	0.52	11.0	0.835	7 S	0.51		0.283	4	0.10	5
6		0.816	6	0.42		0.793	6	0.61					
7		0.742	6	0.38	12.0	0.697	4 S	0.24		0.266	4	0.09	6
8		0.839	6	0.43		0.664	6	0.23	9.0	0.237	4 S	0.08	7
9		0.738	6	0.38		0.654	5	0.28		0.265	5	0.11	8
10		0.631	6	0.33		0.603	11	0.57		0.247	5	0.11	9
11		0.707	6	0.37	6.5	0.533	8 S	0.37		0.235	5	0.10	10
12	5.0	0.718	6 S	0.37		0.541	6	0.28		0.232	6	0.12	11
13		0.671	5	0.29	6.5	0.519	5 S	0.22		0.228	6	0.12	12
14		1.11	8	0.77		0.542	4	0.19		0.233	6	0.12	13
15		0.867	6	0.45		0.550	4	0.19	9.5	0.231	7 S	0.14	14
16		0.845	6	0.44						0.223	8	0.15	15
17		1.29	16	1.78		0.461	4	0.16					
18		2.14	19	3.51	8.5	0.442	5 S	0.19		0.233	10	0.20	16
19		1.45	9	1.13		0.420	5	0.18	11.5	0.264	21 S	0.46	17
20	8.0	0.997	5 S	0.43		0.410	6	0.21		0.217	8	0.15	18
21	8.0	0.983	4 S	0.34	7.5	0.460	7	0.28		0.228	3	0.06	19
22		0.943	5	0.41		0.434	6 S	0.22		0.232	3	0.06	20
23		0.772	5	0.33		0.385	5	0.17					
24	5.5	0.711	5 S	0.31		0.354	5	0.15	14.0	0.233	4	0.08	21
25		0.629	5	0.27		0.344	5	0.15		0.209	4 S	0.07	22
					9.5	0.358	5 S	0.15		0.223	8	0.15	23
26	11.0	0.655	5 S	0.28						0.270	17	0.80	24
27		0.654	8	0.45		0.362	5	0.16		0.195	10	0.17	25
28	5.5	0.896	64 S	4.95		0.360	4	0.12					
29		0.819	19	1.34		0.346	4	0.12		0.198	9	0.14	26
30		0.773	11	0.73		0.346	4	0.12		0.201	8	0.14	27
31						0.334	3	0.09	15.0	0.198	9	0.15	28
					11.5	0.309	4 S	0.12	14.0	0.204	12 S	0.21	29
TOTAL		28.970		27.77		17.569		9.79		0.306	44 S	1.16	30
MEAN		0.966		0.93		0.566		0.32		7.334		5.26	31
										0.244		0.18	TOTAL MEAN

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.220	13	0.25		0.189	9	0.15	10.5	0.161	4 S	0.06	1
2		0.228	7	0.14		0.196	9	0.15		0.217	13	0.24	2
3		0.218	7	0.13		0.192	9	0.15		0.219	7	0.13	3
4		0.196	6	0.10		0.190	9	0.15		0.195	4	0.07	4
5		0.183	6	0.09		0.203	8	0.14		0.183	3	0.05	5
6	14.0	0.198	6 S	0.10	10.0	0.202	7 S	0.12		0.184	3	0.05	6
7		0.201	5	0.09		0.207	6	0.11		0.178	3	0.05	7
8		0.183	6	0.06		0.215	7	0.13		0.168	4	0.06	8
9		0.203	4	0.07		0.195	7	0.12		0.162	4	0.06	9
10		0.189	4	0.07		0.183	7	0.11		0.177	4	0.06	10
11		0.189	5	0.08		0.188	6	0.10		0.178	4	0.06	11
12		0.200	6	0.10	13.5	0.179	6 S	0.09		0.175 A	5	0.08	12
13		0.202	10	0.17		0.182	5	0.08		0.169 E	5	0.07	13
14	15.0	0.202	10 S	0.17		0.190	5	0.08		0.160 E	4	0.06	14
15		0.207	8	0.14		0.172	5	0.07		0.155 E	4	0.05	15
16		0.190	8	0.13		0.159	5	0.07		0.162 E	4	0.06	16
17		0.195	9	0.15		0.174	5	0.08		0.170 E	3	0.04	17
18		0.202	10	0.17		0.170	5	0.07		0.165 E	3	0.04	18
19		0.200	10	0.17		0.164	5	0.07		0.161 E	3	0.04	19
20	13.5	0.191	10 S	0.17	12.5	0.178	4 S	0.06		0.157 E	4	0.05	20
21		0.249	20	0.43		0.171	4	0.06		0.152 E	5	0.07	21
22		0.219	19	0.36		0.159	4	0.05		0.160 A	5	0.07	22
23		0.196	11	0.19		0.169	3	0.04		0.164	4	0.06	23
24		0.202	8	0.14		0.172	2	0.03		0.158	4	0.05	24
25		0.197	7	0.12	13.5	0.167	1 S	0.01		0.152	4 S	0.05	25
26		0.186	6	0.10	13.0	0.196	8 S	0.14		0.150	4	0.05	26
27		0.208	5	0.09		0.168	6	0.09		0.146	4	0.05	27
28		0.193	6	0.10		0.173	5	0.07		0.156	3	0.04	28
29	14.0	0.219	10 S	0.19		0.167	5	0.07		0.157	3	0.04	29
30		0.183	10	0.16		0.159	5	0.07		0.154	4	0.05	30
31		0.191	10	0.17		0.163	6	0.06					31
TOTAL		6.240		6.68		5.592		2.79		5.045		1.91	TOTAL
MEAN		0.201		0.15		0.180		0.09		0.168		0.06	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.162	6	0.08		0.166	3	0.04		0.150	4	0.05	1
2	9.0	0.201	6 S	0.10		0.159	3	0.04		0.162	4	0.06	2
3		0.163	5	0.07		0.162	3	0.04		0.162	5	0.07	3
4		0.158	5	0.07		0.164	4	0.06		0.181	9 S	0.14	4
5		0.160	4	0.06		0.166	5	0.07		0.174	7	0.11	5
6		0.158	3	0.04		0.162	7 S	0.10		0.169	4	0.06	6
7		0.162	2	0.03		0.154	8	0.11		0.175	2	0.03	7
8		0.154	2	0.03		0.151	6	0.08		0.161	1	0.01	8
9	7.0	0.148	1 S	0.01		0.148	6	0.08		0.156	1	0.01	9
10		0.155	2	0.03		0.144	5	0.06		0.151	1	0.01	10
11		0.164	2	0.03		0.163	3 S	0.04		0.157	2 S	0.03	11
12		0.176	3	0.05		0.153	2	0.03		0.156	2	0.03	12
13	7.0	0.169	4 S	0.06		0.160	2	0.03		0.149	2	0.03	13
14		0.164	4	0.06		0.161	3	0.04		0.149 B	2	0.03	14
15		0.177	3	0.05		0.150	3 S	0.04		0.149	2	0.03	15
16	9.5	0.170	1 S	0.01		0.169	3	0.04		0.163	2	0.03	16
17		0.161	1	0.01		0.155	3	0.04		0.190	3	0.05	17
18		0.163	1	0.01		0.154	3	0.04		0.158	4 S	0.05	18
19		0.166	2	0.03		0.156	3	0.04		0.154	4	0.05	19
20		0.171	4	0.06		0.152	2	0.03		0.164	3	0.04	20
21		0.172	1	0.01		0.153	3 S	0.04		0.174	3	0.05	21
22		0.166	2	0.03		0.164	4	0.06		0.162	2	0.03	22
23		0.159	2	0.03		0.166	4	0.06		0.158	2	0.03	23
24		0.157	1	0.01		0.171	4	0.06		0.151	1	0.01	24
25		0.153	1	0.01		0.151	4	0.05		0.163	1	0.01	25
26		0.163	1	0.01		0.146	4	0.05		0.231	9	0.18	26
27		0.162	1 S	0.01		0.150	4	0.05		0.203	5 S	0.09	27
28		0.161	1	0.01		0.139	4 S	0.05		0.191	2	0.03	28
29		0.167	2	0.03		0.146	5	0.06		0.228	6	0.12	29
30		0.169	2	0.03		0.158	5	0.07		0.205	6	0.11	30
31		0.163	3	0.04						0.190	4	0.07	31
TOTAL		5.092		1.09		4.673		1.60		5.286		1.65	TOTAL
MEAN		0.164		0.04		0.156		0.05		0.170		0.05	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	8	
MAXIMUM DAILY	64	ON APR 28
MINIMUM DAILY	1	ON AUG 25

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	0.20	
MAXIMUM DAILY	0.95	ON APR 28
MINIMUM DAILY	0.01	ON AUG 25

TOTAL SUSPENDED SEDIMENT LOAD 72.81 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 46 20 49 N
LONG 63 37 58 W
DRAINAGE AREA 12.9 km^2
NATURAL FLOW

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	3.0	1.24	8 S	0.86		0.842	8	0.58		0.705	6	0.37	1
2		1.29	9	1.00	1.0	0.777	7 S	0.47		0.712	5	0.31	2
3		1.21	11	1.15		0.800	6	0.41		0.701	4	0.36	3
4		1.25	8	0.86	2.0	1.72	46 S	6.84		0.684	6	0.35	4
5	5.0	1.91	28 S	4.62		1.69	24	3.50	3.0	0.707	9 S	0.55	5
6		1.87	19	3.07		1.40	9	1.09		0.702	11 S	0.67	6
7	3.0	1.63	11 S	1.55		1.27	7	0.77	3.0	0.666	6	0.35	7
8		1.57	10	1.36		1.20	6	0.62		0.800	15	1.04	8
9		1.49	9	1.16		1.13	5	0.49		0.805	14	0.97	9
10		1.50	9	1.17		1.11	4	0.38		0.721	6	0.37	10
11		1.45	8	1.00		1.04	4	0.36		0.711	6	0.37	11
12		1.40	7	0.85		0.997	3	0.26	5.0	1.03	9 S	0.80	12
13		1.34	6	0.69		0.955	3	0.25	6.0	1.25	12 S	1.30	13
14		1.33	6	0.69		0.956	3	0.25		1.62	24	3.36	14
15		1.38	6	0.72		0.914	4	0.32		2.03	38	6.66	15
16		1.33	5	0.57	1.0	0.904	3 S	0.23		1.60	11	1.52	16
17		1.32	4	0.46		0.875	3	0.23		1.41	8	0.97	17
18		1.24	7	0.75		0.835	3	0.22		1.31	8	0.91	18
19		1.23	6	0.64		0.806	3	0.21		1.23	8	0.85	19
20		1.30	6	0.67		0.805	3	0.21		1.17	7	0.71	20
21		1.20	5	0.52	2.0	0.832	6 S	0.43		1.10	6	0.57	21
22		1.12	3	0.29		0.842	5	0.36		1.08	6	0.56	22
23		1.06	3	0.27		0.780	5	0.34		1.06	6	0.55	23
24		1.12	7	0.68		0.770	5	0.33		1.01	7	0.61	24
25		1.06	5	0.46		0.739	9	0.57		0.993	7	0.60	25
26		0.983	3	0.25		0.722	7	0.44		1.66	46	6.60	26
27		0.951	4	0.33		0.740	6	0.38		4.15	135	48.4	27
28		0.904	3	0.23		0.723	6	0.37		3.03	47	12.3	28
29		0.876	3	0.23						2.13	10	1.84	29
30		0.841	5	0.36					7.0	1.97	14 S	2.38	30
31		0.835	6	0.43						2.03	24	4.21	31
TOTAL		39.230		27.89		27.174		20.91		40.777		101.41	TOTAL
MEAN		1.27		0.90		0.970		0.75		1.32		3.27	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	4.0	6.24	267 S	144		3.18	44	12.1		1.14	8	0.79	1
2		5.53	83	39.7		3.79	44	14.4		1.11	6	0.58	2
3		3.21	12	3.33	9.0	3.64	29 S	9.12		1.08	6	0.56	3
4	4.0	3.13	69 S	18.7	8.0	3.08	14 S	3.73		1.01	7	0.61	4
5	4.0	3.39	70 S	20.5	8.0	2.84	7 S	1.72		0.982	6	0.51	5
6	4.5	2.74	9 S	2.13		2.71	7	1.64		0.969	5	0.42	6
7		2.56	8	1.77		2.53	6	1.31		0.967	5	0.42	7
8		2.47	10	2.13		2.39	6	1.24		0.956	5	0.41	8
9		2.26	5	0.98		2.27	5	0.98		0.923	5	0.40	9
10		2.10	6	1.09		2.17	4	0.75		0.895	5	0.39	10
11		2.25	21	4.08		2.05	3	0.53		0.871	5	0.38	11
12		2.40	12	2.49	6.0	2.00	4 S	0.69		0.857	5	0.37	12
13		2.36	17	3.47		1.91	2	0.33		0.860	4	0.30	13
14		3.79	54	17.7	6.0	2.15	7 S	1.30		0.867	5	0.37	14
15	8.0	2.99	26 S	6.72	5.0	2.33	19 S	3.82		0.876	7	0.53	15
16		2.89	26	6.49		1.89	6	0.98	11.0	0.843	7 S	0.51	16
17		4.25	80	29.4		1.75	7	1.06		0.816	7	0.49	17
18	8.0	5.71	40 S	19.7		1.67	7	1.01		0.790	5	0.34	18
19		3.56	12	3.69		1.63	7	0.99		0.801	6	0.42	19
20	8.0	2.86	10 S	2.47		1.77	13	1.99		0.837	6	0.43	20
21	7.5	2.86	37 S	9.14		1.80	13	2.02		0.812	5	0.35	21
22		3.09	59	15.8		1.56	5	0.67		0.773	5	0.33	22
23		2.48	10	2.14		1.46	6	0.76	13.0	0.880	40 S	3.04	23
24		2.36	6	1.22		1.43	6	0.74		1.10	100	9.50	24
25		2.27	7	1.37		1.43	6	0.74		0.789	13	0.89	25
26		2.29	10	1.98		1.40	6	0.73		0.748	10	0.64	26
27	8.0	2.32	9 S	1.80		1.36	6	0.69		0.737	9	0.57	27
28	8.0	3.20	58 S	16.0		1.29	6	0.67		0.703	8	0.49	28
29		2.67	37	7.90		1.29	6	0.67		0.705	7	0.43	29
30	7.0	2.36	17 S	3.67		1.25	6	0.65	10.0	1.21	244 S	25.5	30
31					5.0	1.20	7 S	0.73					31
TOTAL		92.39		391.36		63.20		68.76		26.899		50.97	TOTAL
MEAN		3.08		13.0		2.04		2.22		0.896		1.70	MEAN

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.808	11	0.77		0.528	5	0.23		0.451	4	0.16	1
2		0.724	10	0.63		0.523	5	0.23	13.0	0.733	22 S	1.39	2
3		0.704	10	0.61		0.514	5	0.22		0.612	11	0.58	3
4		0.683	9	0.53		0.514	5	0.22	14.0	0.509	7 S	0.31	4
5		0.658	10	0.57		0.535	6	0.28		0.469	8	0.32	5
6	14.5	0.648	14 S	0.78		0.537	6	0.28		0.448	8	0.31	6
7		0.662	6	0.34		0.515	4	0.18		0.449	7	0.27	7
8		0.633	5	0.27		0.543	4	0.19		0.446	7	0.27	8
9		0.629	5	0.27		0.517	5	0.22		0.441	8	0.30	9
10		0.617	4	0.21		0.541	5	0.23		0.437	8	0.30	10
11		0.603	5	0.26		0.528	5	0.23		0.425	7	0.26	11
12		0.590	5	0.25		0.500	5	0.22		0.431	7	0.26	12
13		0.585	5	0.25		0.512	5	0.22		0.417	6	0.22	13
14	17.5	0.581	5 S	0.25		0.515	5	0.22		0.425	6	0.22	14
15		0.571	5	0.25		0.495	5	0.21		0.403	5	0.19	15
16		0.580	6	0.30		0.481	5	0.21		0.449	5	0.19	16
17		0.560	7	0.34		0.480	5	0.21		0.427	5	0.18	17
18		0.558	6	0.29	13.0	0.465	5 S	0.20		0.424	5	0.18	18
19		0.555	6	0.29		0.469	5	0.20		0.422	5	0.18	19
20		0.568	6	0.29		0.468	5	0.20		0.417	5	0.18	20
21	14.5	0.804	11 S	0.76		0.471	5	0.20		0.424	5	0.18	21
22	15.0	0.736	35 S	2.23		0.466	5	0.20		0.428	15	0.55	22
23		0.598	7	0.36		0.455	5	0.20	12.0	0.449	27 S	1.05	23
24		0.570	7	0.34		0.500	5	0.22		0.446	13	0.50	24
25		0.551	7	0.33		0.499	5	0.22		0.424	8	0.29	25
26		0.576	6	0.30		0.603	16	0.83		0.414	5	0.18	26
27		0.537	6	0.28		0.528	5	0.23		0.416	3 S	0.11	27
28		0.527	5	0.23		0.476	5	0.21		0.415	3	0.11	28
29		0.715	17	1.05		0.461	5	0.20		0.407	3	0.11	29
30		0.589	6	0.31		0.446	4	0.15		0.399	3	0.10	30
31		0.534	6	0.28	13.5	0.453	3 S	0.12					31
TOTAL		19.254		14.22		15.538		7.18		13.497		9.45	TOTAL
MEAN		0.621		0.46		0.501		0.23		0.450		0.32	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.413	5	0.18		0.357	3	0.09	2.0	0.352	3 S	0.09	1
2		0.783	61 S	4.13		0.350	3	0.09		0.362	3	0.09	2
3		0.531	15	0.69		0.351	3	0.09		0.372	4	0.13	3
4		0.453	7	0.27		0.352	3	0.09	4.5	0.538	11 S	0.51	4
5		0.437	7	0.26		0.349	3	0.09	6.0	0.491	7 S	0.30	5
6		0.424	6	0.22		0.350	3	0.09		0.419	6	0.22	6
7		0.421	6	0.22		0.337	3	0.09		0.409	6	0.21	7
8		0.408	6	0.21		0.331	3	0.09		0.390	6	0.20	8
9		0.421	6	0.22		0.331	3	0.09		0.390	5	0.17	9
10		0.411	6	0.21		0.327	3	0.08		0.373	5	0.16	10
11		0.408	6	0.21		0.324	3	0.08		0.401	5	0.17	11
12		0.404	5	0.17		0.323	2	0.06		0.380	5	0.16	12
13		0.404	5	0.17		0.323	2	0.06		0.395	10	0.34	13
14	8.0	0.409	6 S	0.21		0.375	7	0.23		0.378	6	0.20	14
15		0.471	13	0.53		0.338	2	0.06		0.376	8	0.26	15
16		0.443	8	0.31		0.448	14	0.54		0.385	8	0.27	16
17		0.415	6	0.22		0.388	4	0.13		0.832	31	2.23	17
18		0.405	5	0.17	3.0	0.353	2 S	0.06		0.519	12	0.54	18
19		0.390	5	0.17		0.344	2	0.06		0.453	4	0.16	19
20		0.383	5	0.17	3.0	0.328	2 S	0.06		0.480	5	0.21	20
21		0.375	5	0.16		0.324	2	0.06		0.523	6	0.27	21
22		0.369	5	0.16		0.338	4	0.12		0.479	6	0.25	22
23		0.360	5	0.16		0.345	5	0.15		0.457	4	0.16	23
24		0.356	5	0.15		0.342	4	0.12		0.432	4	0.15	24
25		0.355	4	0.12		0.340	4	0.12		0.434	4	0.15	25
26		0.353	4	0.12		0.326	4	0.11		1.50	95	12.3	26
27		0.357	4	0.12		0.341	3	0.09		1.01	63	5.50	27
28		0.358	3	0.09		0.321	3	0.08		0.716	14	0.87	28
29		0.357	3	0.09		0.329	3	0.09	5.0	1.14	31 S	3.05	29
30		0.363	3	0.09		0.379	3	0.10		0.838	6	0.43	30
31		0.362	3	0.09						0.711	5	0.31	31
TOTAL		12.799		10.29		10.364		3.27		16.935		30.06	TOTAL
MEAN		0.413		0.33		0.345		0.11		0.546		0.97	MEAN

SUMMARY FOR THE YEAR 1982

SUSPENDED SEDIMENT CONCENTRATION(mg/L)

MEAN	23	
MAXIMUM DAILY	267	ON APR 01
MINIMUM DAILY	2	ON MAY 13

SUSPENDED SEDIMENT LOAD(t/d)

MEAN	2.02	
MAXIMUM DAILY	144	ON APR 01
MINIMUM DAILY	0.06	ON NOV 12

TOTAL SUSPENDED SEDIMENT LOAD 735.77 t

TYPE OF GAUGE - RECORDING
LOCATION - LAT 46 23 35 N
LONG 63 39 35 W
DRAINAGE AREA 65.6 km^2
NATURAL FLOW

S - SAMPLE(S) COLLECTED THIS DAY

SASKATCHEWAN

COTTONWOOD CREEK NEAR LUMSDEN - STATION NO. 05JF011

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1										0 B			1
2										0 B			2
3										0 B			3
4										0 B			4
5										0 B			5
6													
7										0 B			6
8										0 B			7
9										0 B			8
10										0 B			9
11										0 B			10
12										0 B			11
13										0 B			12
14										0 B			13
15										0 B			14
16										0 B			15
17										0 B			16
18										0 B			17
19										0 B			18
20										0 B			19
21										0 B			20
22													
23										0 B			21
24										0 B			22
25										0 B			23
26										0 B			24
27										0 B			25
28										0 B			26
29										0 B			27
30										0 B			28
31										0 B			29
										0 B			30
										0 B			31
TOTAL										0			TOTAL
MEAN										0			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		0 B	0	0		1.78	134	20.6		0.150			1
2		0 B	0	0		1.46	139	17.5		0.117			2
3		0 B	0	0		1.26	143	15.6		0.093			3
4		0 B	0	0	11.0	1.19	148 S	15.2		0.072			4
5		0 B	0	0		1.12				0.056			5
6		0 B	0	0									
7		0 B	0	0		0.925				0.051			6
8		0 B	0	0		0.859				0.024			7
9		0 B	0	0		0.687				0.020			8
10		0 B	0	0		0.507				0.019			9
11		0 B	0	0		0.472			10.5	0.015	5 S	0.01	10
12		0.030 B	4	0.01		0.468				0.014			11
13		0.250 B	28	0.63		0.496				0.017			12
14		1.06 B	100	8.84		0.422				0.009			13
15	1.0	5.60 B	355 S	172	12.0	0.381	87 S	2.86		0.008			14
						0.440				0.007			15
16		35.0 B	384	1 160		0.388							
17		47.2	385	1 570		0.297				0.009			16
18		40.6	375	1 320		0.214				0.007			17
19	4.0	31.8	363 S	997		0.149				0.006			18
20		28.8	343	853		0.140				0.006			19
21		21.3	302	556						0.005			20
22	8.5	14.8	272 S	348		0.123				0.005			21
23		11.6	275	276		0.105				0.004			22
24		8.92	280	216		0.088				0.004			23
25		6.75	287	167		0.076				0.003			24
						0.064				0.002			25
26	9.0	5.26	289 S	131									
27		4.36	258	97.2	17.0	0.056	7 S	0.83		0.002			26
28		3.68	189	60.7		0.050				0.002			27
29		2.90	138	34.6		0.070				0.002			28
30	8.5	2.27	130 S	25.5		0.153				0.002			29
31						0.168				0.002			30
						0.146							31
TOTAL		272.130		7 992.48		16.756				0.733			TOTAL
MEAN		9.07		266		0.476				0.024			MEAN

COTTONWOOD CREEK NEAR LUMSDEN - STATION NO. 05JF011

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.002				0				0			1
2		0.004				0				0			2
3		0.002				0				0			3
4		0.001				0				0			4
5		0.002				0				0			5
6		0.001											
7		0.001				0				0			6
8		0.001				0				0			7
9		0.001				0				0			8
10		0.001				0				0			9
11		0				0				0			10
12		0				0				0			11
13		0				0				0			12
14		0				0				0			13
15		0				0				0			14
16		0.001								0			15
17		0.005				0				0			16
18		0.001				0				0			17
19		0.001				0				0			18
20		0				0				0			19
21		0								0			20
22		0.002				0				0			21
23		0.001				0				0			22
24		0				0				0			23
25		0				0				0			24
26		0								0			25
27		0				0				0			26
28		0				0				0			27
29		0				0				0			28
30		0				0				0			29
31		0				0				0			30
													31
TOTAL		0.027				0				0			TOTAL
MEAN		0.001				0				0			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0											1
2		0											2
3		0											3
4		0											4
5		0											5
6		0											6
7		0											7
8		0											8
9		0											9
10		0											10
11		0											11
12		0											12
13		0											13
14		0											14
15		0											15
16		6											16
17		0											17
18		0											18
19		0											19
20		0											20
21		0											21
22		0											22
23		0											23
24		0											24
25		0											25
26		0											26
27		0											27
28		0											28
29		0											29
30		0											30
31		0											31
TOTAL		0											TOTAL
MEAN		0											MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 35 26 N
LONG 104 54 31 W
DRAINAGE AREA 615 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

COTTONWOOD CREEK NEAR LUNSDEN - STATION NO. 05JF011

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 15	14:45	5.20	1.0	365 K	33	44	63	81	95	98	99	100				BHW

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

MOOSE JAW RIVER NEAR BURDICK - STATION NO. 05JE006

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		0.064 B				0.103 B				0.121 B			1
2		0.072 B				0.058 B				0.125 B			2
3		0.073 B				0.093 B				0.131 B			3
4		0.067 B				0.111 B				0.130 B			4
5		0.050 B				0.130 B				0.128 B			5
6		0.055 B				0.100 B				0.110 B			6
7		0.061 B				0.089 B				0.095 B			7
8		0.067 B				0.109 B				0.095 B			8
9		0.051 B				0.160 B				0.097 B			9
10		0.053 B				0.181 B				0.100 B			10
11		0.047 B				0.191 B				0.102 B			11
12		0.036 B				0.159 B				0.104 B			12
13		0.045 B				0.128 B				0.115 B			13
14		0.030 B				0.138 B				0.135 B			14
15		0.041 B				0.133 B				0.160 B			15
16		0.082 B				0.127 B				0.350 B			16
17		0.063 B				0.128 B				0.900 B			17
18		0.062 B				0.133 B				0.830 B			18
19		0.060 B				0.132 B				0.800 B			19
20		0.070 B				0.139 B				0.900 B			20
21		0.075 B				0.130 B				1.40 B			21
22		0.096 B				0.167 B				1.00 B			22
23		0.116 B				0.221 B				0.990 B			23
24		0.137 B				0.215 B				0.970 B			24
25		0.127 B				0.184 B				0.960 B			25
26		0.126 B				0.162 B				0.955 B			26
27		0.133 B				0.142 B				0.950 B			27
28		0.190 B				0.128 B				0.970 B			28
29		0.168 B								1.30 B			29
30		0.151 B							0.5	1.54 B	46 S	6.12	30
31		0.155 B								2.05 B	51	9.03	31
TOTAL		2.623				3.851				18.613			TOTAL
MEAN		0.085				0.138				0.600			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		2.50 B	69	14.9	10.0	32.4	367 S	1 030		7.11	197	121	1
2		4.40 B	139	52.8	12.0	28.9	335 S	836		7.19	181	112	2
3		6.64 B	180	103	11.5	24.4	341 S	719		8.11	176	123	3
4		5.10 B	173	76.2	9.5	20.0	326 S	563		8.92	185	143	4
5		3.36 B	168	48.8	9.0	16.1	318 S	442		9.29	182	146	5
6		2.56 B	161	35.6	7.0	13.7	320 S	379		8.84	151	115	6
7		1.70 B	157	23.1	6.0	12.4	296 S	317		7.86	120	81.5	7
8		0.959 B	152	12.6	5.5	11.7	254 S	257		6.64	96	55.1	8
9		0.900 B	148	11.5	5.5	10.5	254 S	230		5.36	85	39.4	9
10		0.773 B	144	9.62	5.0	9.67	270 S	226	16.0	4.35	78 S	29.3	10
11		2.97 B	152	39.0	6.0	8.59	276 S	205		3.61			11
12		24.4 B	209	441	8.0	7.55	267 S	174		3.03			12
13	0.5	45.7 B	314 S	1 240	10.5	6.52	258 S	145		2.63			13
14	0.2	55.3 B	365 S	1 740	11.0	5.49	248 S	118		2.28			14
15	3.5	49.2	432 S	1 840	12.5	4.49	228 S	88.4		2.04			15
16	3.0	41.0	472 S	1 670	10.5	3.87	202 S	67.5		2.00			16
17	3.0	74.8	805 S	5 200	10.5	3.42	197 S	58.2		1.62			17
18	3.0	130	829 S	9 310		3.02	187	48.8		1.49			18
19	2.5	154	886 S	9 130		2.78	166	39.9		1.26			19
20	3.0	147	706 S	8 970		2.85	143	35.2		1.05			20
21	6.0	131	625 S	7 070		2.64	122	27.8		0.925			21
22	7.0	113	531 S	5 180		2.51	99	21.5		0.886			22
23	7.5	98.9	506 S	4 320		2.57	76	16.9	22.0	0.790	14 S	0.96	23
24	9.0	86.6	459 S	3 430		2.53	55	12.0		0.679			24
25	7.5	73.5	433 S	2 750	14.5	2.10	39 S	7.35		0.570			25
26	8.0	62.6	428 S	2 310		2.06	38	6.76		0.480			26
27	8.0	53.1	384 S	1 760		1.84	69	11.0		0.405			27
28	10.0	46.2	371 S	1 480		3.89	268	90.1		0.360			28
29	10.0	40.7	395 S	1 390	5.5	9.58	309 S	256		0.445			29
30	11.0	35.9	388 S	1 200	6.5	11.8	230 S	234		0.387			30
31					6.0	9.53	210 S	173					31
TOTAL		1 494.762		70 858.12		279.48		6 835.01		108.595			TOTAL
MEAN		49.8		2 360		9.02		220		3.35			MEAN

SASKATCHEWAN

NOOSE JAW RIVER NEAR BURDICK - STATION NO. 05JE006

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.319				3.53				0.079			1
2		0.793				2.94				0.057			2
3		0.509				2.09				0.084			3
4		0.361			20.5	0.540	86 S	4.01		0.137			4
5		0.236				1.03				0.048			5
6		0.187				1.30				0.021			6
7		0.144				1.05				0.043			7
8		0.152				0.867				0.046			8
9		0.178				0.696				0.037			9
10		0.194				0.545				0.051			10
11		0.171				0.458				0.055			11
12		0.189				0.478				0.053			12
13		0.242				0.432				0.053			13
14		0.140				0.328				0.072			14
15		0.124				0.246				0.063			15
16		0.274				0.328				0.046			16
17		0.386				0.523				0.040			17
18		0.412				0.551				0.028			18
19		0.263				0.436				0.015			19
20		0.195				0.291				0.019			20
21		0.104				0.193				0.168			21
22		0.150				0.177				0.235			22
23		0.425				0.181				0.234			23
24		10.1				0.133				0.219			24
25		13.6				0.072				0.207			25
26		14.3	211 S	261		0.075				0.178			26
27		13.3				0.080				0.162			27
28		11.9				0.092				0.226			28
29		9.83				0.076				0.304			29
30		5.96				0.066				0.217			30
31		3.71				0.089							31
TOTAL		88.828				19.893				3.197			TOTAL
MEAN		2.87				0.642				0.106			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0.197				0.086				0.202 B			1
2		0.198				0.063				0.213 B			2
3		0.189				0.042				0.213 B			3
4		0.179				0.040				0.200 B			4
5		0.296				0.048				0.187 B			5
6		0.278				0.052				0.180 B			6
7		0.450				0.067				0.186 B			7
8		0.373				0.062				0.197 B			8
9		0.331				0.063				0.199 B			9
10		0.263				0.204				0.182 B			10
11		0.189				0.298				0.184 B			11
12		0.130				0.385 B				0.193 B			12
13		0.082				0.398 B				0.188 B			13
14		0.065				0.407 B				0.193 B			14
15		0.033				0.401 B				0.179 B			15
16		0.033				0.402 B				0.178 B			16
17		0.042				0.403 B				0.187 B			17
18		0.046				0.393 B				0.176 B			18
19		1.39				0.324 B				0.175 B			19
20		0.727				0.220 B				0.158 B			20
21		0.275				0.159 B				0.162 B			21
22		0.275				0.164 B				0.173 B			22
23		0.286				0.171 B				0.184 B			23
24		0.219				0.177 B				0.170 B			24
25		0.173				0.172 B				0.159 B			25
26		0.155				0.174 B				0.148 B			26
27		0.135				0.182 B				0.161 B			27
28		0.093				0.184 B				0.192 B			28
29		0.073				0.185 B				0.204 B			29
30		0.075				0.195 B				0.227 B			30
31		0.093								0.213 B			31
TOTAL		7.363				6.021				5.763			TOTAL
MEAN		0.237				0.201				0.186			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 24 00 N
LONG 105 23 50 W
DRAINAGE AREA 9 230 km^2
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

MOOSE JAW RIVER NEAR BURDICK - STATION NO. 05JE006

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 13	10:55	42.4	0.5	329 K	38	48	68	85	92	95	98	100				BNW
APR 14	11:30	55.3 H	6.2	364 K	57	60	80	91	96	98	100					BNW
APR 15	11:55	44.2	3.5	437 R	63	74	86	91	95	97	99	100				BNW
APR 15	12:10	44.2	3.5	448 K	53	73	84	90	94	96	98	100				BNW
APR 15	14:45	44.2	3.0	444 K	58	67	79	87	92	95	98	100				BNW
APR 16	17:10	41.0 H	3.2	508 K	67	75	84	91	94	96	98	99	100			BNW
APR 17	07:00	74.8 H	3.0	763 K	53	64	78	90	96	97	99	100				BNW
APR 18	15:25	130 H	3.0	796 K	57	67	77	87	95	97	98	99	100			BNW
APR 19	09:15	156	2.5	653 P	64	72	80	89	96	97	99	100				BNW
APR 19	15:40	156	5.0	689 K	64	74	84	91	96	98	100					BNW
APR 20	09:10	147	3.0	685 K	76	83	88	92	94	96	98	99	100			BNW
APR 20	13:40	147	3.0	716 R	75	82	89	94	97	98	99	100				BNW
APR 20	13:50	147	3.0	707 K	73	82	89	91	95	98	99	100				BNW
APR 21	07:40	131 H	4.0	650 K	74	82	88	91	95	96	98	100				BNW
APR 22	22:00	113 H	7.0	515 K	77	82	88	92	96	98	99	100				BNW
APR 23	10:30	98.9 H	7.5	509 K	78	84	90	94	96	98	98	99	100			BNW
APR 24	12:10	86.6 H	9.0	461 K	78	85	90	94	95	96	98	99	100			BNW
APR 25	09:20	73.5 H	7.5	436 K	76	84	88	92	95	96	98	100				BNW
APR 26	09:30	62.6 H	8.0	436 K	80	87	92	94	97	99	100					BNW
APR 27	07:30	53.1 H	8.0	398 K	78	86	92	94	97	98	99	100				BNW
APR 28	20:30	45.9	10.5	382 K	80	89	92	94	96	98	99	100				BNW
APR 29	18:00	40.7 H	10.0	405 K	82	88	92	93	95	96	98	100				BNW
APR 30	13:30	35.9 H	11.0	392 K	83	88	93	95	96	97	99	100				BNW
MAY 01	10:10	32.4 H	10.0	375 K	90	92	94	96	97	98	100					BNW
MAY 02	13:50	28.9 H	12.0	333 K	90	91	95	96	97	98	99	100				BNW
MAY 03	08:50	24.4 H	11.5	348 K	82	89	94	95	97	98	99	100				BNW
MAY 04	07:30	20.0 H	9.5	327 K	85	91	94	96	98	99	100					BNW
MAY 05	17:50	16.2	9.0	319 K	86	90	93	94	96	97	98	100				BNW
MAY 06	10:00	13.7 H	7.0	325 K	86	91	94	95	96	97	99	100				BNW
MAY 07	19:30	12.4 H	6.0	285 K	88	94	96	96	97	99	100					BNW
MAY 08	10:40	11.7 H	5.5	256 K	94	95	96	97	98	98	99	100				BNW
MAY 09	12:40	10.5 H	5.5	256 K	88	94	96	97	98	100						BNW
MAY 10	08:00	9.67H	5.0	271 K	87	93	98	98	99	99	100					BNW
MAY 11	09:10	8.59H	6.0	281 K	82	88	94	96	97	98	99	100				BNW
MAY 14	08:30	5.49H	11.0	258 K	84	92	97	98	99	99	100					BNW
MAY 29	11:40	9.58H	5.5	316 K	64	75	90	94	97	98	99	100				BNW

H - DAILY MEAN DISCHARGE K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL R - SAMPLES COLLECTED IN SEVERAL VERTICALS

NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT - STATION NO. 05GG001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		150 B				104 B				81.9 B			1
2		143 B				103 B				80.2 B			2
3		136 B				105 B				83.7 B			3
4		130 B				115 B				81.9 B			4
5		122 B				122 B				79.3 B			5
6		115 B				115 B				75.3 B			6
7		118 B				108 B				74.4 B			7
8		119 B				105 B				75.7 B			8
9		106 B				104 B				73.0 B			9
10		92.8 B				104 B				68.2 B			10
11		84.6 B				111 B				69.8 B			11
12		78.7 B				112 B				72.2 B			12
13		75.1 B				108 B				72.1 B			13
14		72.8 B				105 B				78.3 B			14
15		70.4 B				105 B				92.1 B			15
16		73.5 B				108 B				102 B			16
17		79.3 B				110 B				101 B			17
18		82.0 B				110 B				98.9 B			18
19		80.1 B				108 B				102 B			19
20		79.3 B				107 B				108 B			20
21		87.5 B				106 B				114 B			21
22		105 B				98.0 B				115 B			22
23		119 B				93.4 B				116 B			23
24		119 B				96.0 B				117 B			24
25		113 B				102 B				117 B			25
26		109 B				100 B				115 B			26
27		108 B				91.7 B				109 B			27
28		110 B				86.5 B				102 B			28
29		113 B								99.8 B			29
30		112 B								103 B			30
31		107 B								106 B			31
TOTAL		3 210.1				2 942.6				2 883.8			TOTAL
MEAN		104				105				93.0			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		108 B				949	995 E	81 600		274	113	2 680	1
2		109 B				932	956 E	77 000		248	83 S	1 780	2
3		112 B				785	813 E	55 100		233	74	1 490	3
4		113 B				644	712 E	39 600	17.0	234	78 S	1 580	4
5		113 B				593	663 E	34 000		246	85	1 810	5
6		115 B				589	629 E	32 000		260	94	2 110	6
7		120 B				550	582 E	27 700	15.0	273	107 S	2 520	7
8		123 B				522	534 E	24 100	15.0	268	95 S	2 200	8
9		121 B				496	503 E	21 600	14.0	257	76 S	1 690	9
10		119 B				476	468 E	19 200		249	68	1 460	10
11		115 B				496	444 E	19 000	17.0	241	61 S	1 270	11
12		112 B				478	429 E	17 700		236	58	1 180	12
13		110 B			12.0	436	354 S	13 300		241	61	1 270	13
14		111 B				391	298	10 100	19.0	255	71 S	1 560	14
15		111 B				361	254	7 920		269	83	1 930	15
16		115 B				333	213	6 130	20.0	310	99 S	2 650	16
17		122 B				317	185	5 070		343	117	3 470	17
18		126 B				317	171	4 680	20.0	342	116 S	3 430	18
19		129 B				313	170	4 600		325	102	2 860	19
20		133 B			13.0	305	167 S	4 400		332	101	2 900	20
21		133 B				306	156	4 120	19.0	343	117 S	3 470	21
22		138 B				303	145	3 800		345	125	3 730	22
23		157 B				296	136	3 480	19.0	344	120 S	3 570	23
24		157 B				300	130	3 370		334	113	3 260	24
25		222 B			18.5	305	128 S	3 270	20.0	335	119 S	3 440	25
26		360 B				301	120	3 120		344	130	3 860	26
27		370			16.0	297	113 S	2 900		336	124	3 600	27
28		800				293	110	2 780	20.0	313	104 S	2 810	28
29		954				296	113	2 890	19.0	317	101	2 770	29
30		948				309	131	3 500		328	117 S	3 320	30
31					11.0	307	138 S	3 660					31
TOTAL		6 576				13 596		541 690		6 775		75 670	TOTAL
MEAN		219				439		17 500		293		2 520	MEAN

NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT - STATION NO. 05GG001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)		JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)		AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)		SEP DAILY LOAD (t)	DAY
1		322	120		3 340		567	345		16 900	13.0	173	36	S	538	1
2	20.0	325	118	S	3 310		492	313		13 300		170	36		529	2
3		360	172		5 350	18.5	467	239	S	9 640	19.0	175	32	S	484	3
4		372	223		7 170	20.0	463	207	S	8 280		184	32		509	4
5	20.0	399	232	S	8 000	21.0	454	174	S	6 830		186	32		514	5
6		411	241		8 560		417	143		5 150	15.0	190	36	S	591	6
7	20.0	433	249	S	9 320		400	116		4 010		209	44		795	7
8		475	271		11 100	20.0	379	92	S	3 010	17.0	213	45	S	828	8
9	21.0	513	305	S	13 500		349	81		2 440		198	37		633	9
10		695	386		23 200		329	75		2 130	17.0	192	33	S	547	10
11		1 280	600		66 400	21.0	305	71	S	1 870		186	32		514	11
12	18.0	1 660	1 020	S	146 000		321	86		2 390		194	33		553	12
13	19.0	1 680	1 160	S	168 000	19.0	313	89	S	2 410		203	34		596	13
14	19.0	1 490	1 150	S	148 000		290	72		1 800		199	34		585	14
15	19.0	1 360	988	S	116 000		275	61		1 450	11.0	195	34	S	573	15
16	19.0	1 220	846	S	89 200	21.0	256	53	S	1 170		207	38		680	16
17	20.0	1 060	747	S	68 400		250	52		1 120	12.0	223	48	S	925	17
18	19.0	893	682	S	52 600	21.0	229	51	S	1 010		233	55		1 110	18
19	19.0	789	575	S	39 200		231	51		1 020		227	50		981	19
20	19.0	706	516	S	31 500	21.0	240	50	S	1 040		219	46		870	20
21		658	666		37 900		249	53		1 140		223	52		1 000	21
22	19.0	724	764	S	47 800		235	49		995		250	61		1 320	22
23		755	665		43 400	20.0	234	43	S	869		245	59		1 250	23
24		638	548		30 200		249	45		968		225	52		1 010	24
25		570	431		21 200	15.0	251	49	S	1 060		212	51		934	25
26	20.0	543	334	S	15 700		239	47		971		217	A 53		994	26
27		511	308		13 600		218	42		791		225	E 53		1 030	27
28	21.0	500	341	S	14 700		197	40		681		195	E 47		792	28
29		545	366		17 200		180	37		575		197	A 40		681	29
30	21.0	609	366	S	19 300	13.0	180	37	S	575	6.0	202	37	S	646	30
31		615	357		19 000		182	36		566						31
TOTAL		23 111			1 298 150		9 441			96 161		6 167			23 012	TOTAL
MEAN		746			41 900		305			3 100		206			767	MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)		OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)		NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)		DEC DAILY LOAD (t)	DAY
1		213	40		736		223					137	B			1
2		210	39		708		208					134	B			2
3		197	35		596		200					129	B			3
4		190	31		509		191					123	B			4
5		180	30		467		179					112	B			5
6		181	30		469		165					104	B			6
7		191	31		512		169					110	B			7
8		201	35		608		149	A				125	B			8
9		212	41		751		130	A				137	B			9
10		226	49		957		121					142	B			10
11		233	53		1 070		110					144	B			11
12	7.0	234	54	S	1 090		106	B				144	B			12
13		241	66		1 370		104	B				141	B			13
14	9.0	259	91	S	2 040		106	B				140	B			14
15		271	100		2 340		113	B				138	B			15
16		257	90		2 000		124	B				137	B			16
17		245	75		1 590		137	B				137	B			17
18	6.0	229	61	S	1 210		137	B				130	B			18
19		228	53		1 040		133	B				127	B			19
20		231	47		938		133	B				127	B			20
21	6.0	218	41	S	772		140	B				124	B			21
22		211	40		729		138	B				121	B			22
23		212	39		714		124	B				119	B			23
24		210	38		689		113	B				119	B			24
25	4.0	211	36	S	656		115	B				122	B			25
26		210	39		708		117	B				126	B			26
27		207	43		769		120	B				129	B			27
28		207	50		894		131	B				133	B			28
29	2.0	208	59	S	1 060		137	B				132	B			29
30		208	68		1 220		138	B				132	B			30
31		220	73		1 390							134	B			31
TOTAL		6 751			30 602		4 211					4 008				TOTAL
MEAN		218			987		140					129				MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 12 10 N
LONG 105 46 06 W
DRAINAGE AREA 131 000 km^2
REGULATED FLOW SINCE 1962

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SASKATCHEWAN

NORTH SASKATCHEWAN RIVER AT PRINCE ALBERT - STATION NO. 05GG001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m^3/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES											METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
MAY 13	14:45	432	12.0	337 R	26	32	53	68	73	77	85	94	97	99		BNW
JUL 12	11:15	1 630	16.0	1 060 R	16	23	33	41	49	62	82	95	99			BNW

R - SAMPLES COLLECTED IN SEVERAL VERTICALS

PINTO CREEK NEAR WOODROW - STATION NO. 05JA004

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1						0 B				0 B	0	0	1
2						0 B				0 B	0	0	2
3						0 B				0 B	0	0	3
4						0 B				0 B	0	0	4
5						0 B				0 B	0	0	5
6						0 B				0 B	0	0	6
7						0 B				0.152 B	20	0.26	7
8						0 B				0.260 B	52	1.17	8
9						0 B				0.372 B	52	1.67	9
10						0 B				0.515 B	52	2.31	10
11						0 B				0.562 B	52	2.52	11
12						0 B				0.551 B	52	2.48	12
13						0 B				0.575 B	52	2.58	13
14						0 B				0.791 B	52	3.55	14
15						0 B				0.708 B	52	3.18	15
16						0 B			0.1	0.655 B	52 S	2.94	16
17						0 B				4.15 B	55	19.7	17
18						0 B			0.1	10.5 B	62 S	56.2	18
19						0 B				12.2 B	68	71.7	19
20						0 B				13.3 B	68	78.1	20
21						0 B				13.2 B	62	70.7	21
22						0 B			0.1	12.1 B	51 S	53.3	22
23						0 B				8.46 B	42	30.7	23
24						0 B				6.69 B	39	22.5	24
25						0 B			0.5	6.08 B	36 S	18.9	25
26						0 B				6.14 B	38	20.2	26
27						0 B				7.83 B	38	25.7	27
28						0 B				10.3	40	35.6	28
29										14.6	42	53.0	29
30										21.2	43	78.8	30
31									0.5	23.4	45 S	91.0	31
TOTAL						0				175.291		748.76	TOTAL
MEAN						0				5.65		24.2	MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		21.0	96	174		0.256				3.22			1
2		25.0	170	367		0.243				3.17			2
3		23.7	139	285		0.233				3.10			3
4		19.3	83	138		0.204				3.39			4
5		15.0	55 S	71.3		0.181				3.14			5
6		9.94	49	42.1		0.161				2.52			6
7		9.72	46 S	38.6		0.148				2.05			7
8		9.96	37	31.8		0.123				1.72			8
9		5.94	29	14.9		0.120				1.34			9
10		4.22	26	9.48		0.133				1.01			10
11		5.39	26	12.1		0.132				0.808			11
12		8.22	30	21.3		0.121				0.624			12
13	3.0	10.5	40 S	36.3		0.114				0.551			13
14		11.7	52	52.6		0.094				0.498			14
15		12.0	65	67.4		0.081				0.426			15
16		11.4	76	74.9		0.092				0.383			16
17		11.0	84	79.8		0.097				0.340			17
18		10.3	92	81.9		0.090				0.340			18
19		8.38	101	73.1		0.087				0.302			19
20		5.67	109	53.4		0.096				0.239			20
21	6.0	3.15	110 S	29.9		0.101				0.194			21
22		1.88	107	17.4		0.089				0.166			22
23		1.40	99	12.0		0.073				0.151			23
24		1.09	88	8.29		0.073				0.140			24
25		0.787	77	5.24		0.067				0.124			25
26		0.563	65	3.16		0.058				0.103			26
27	9.5	0.453	54 S	2.11		0.054				0.280			27
28		0.369	52	1.66		0.151				0.119			28
29		0.317	51	1.40		1.25				0.088			29
30		0.291	50	1.26		2.38				0.081			30
31						3.26							31
TOTAL		248.640		1 807.48		10.362				30.617			TOTAL
MEAN		8.29		60.2		0.334				1.02			MEAN

SASKATCHEWAN

PINTO CREEK NEAR WOODROW - STATION NO. 05JA004

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		0.079				0.037				0			1
2		0.096				0.039				0			2
3		0.107				0.037				0			3
4		0.074				0.036				0			4
5		0.069				0.036				0			5
6		0.065				0.028							
7		0.058				0.022				0			6
8		0.049				0.015				0			7
9		0.044				0.013				0			8
10		0.039				0.008				0			9
11		0.032								0			10
12		0.027				0.007							
13		0.018				0.564				0			11
14		0.015				0.071				0			12
15		0.016				0.017				0			13
16		0.021				0.010				0			14
17		0.029				0.007							15
18		0.032				0.007				0			
19		0.030				0.006				0			16
20		0.020				0.002				0			17
21		0.016				0.001				0			18
22		0.027				0.001				0			19
23		0.022				0							20
24		0.021				0				0			
25		0.016				0				0			21
26		0.016								0			22
27		0.017				0				0			23
28		0.019				0				0			24
29		0.022				0							25
30		0.026				0				0			
31		0.032				0				0			26
						0				0			27
TOTAL		1.152								0			28
MEAN		0.037				0.964				0			29
						0.031							30
													31
													TOTAL MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		0				0							1
2		0				0							2
3		0											3
4		0											4
5		0											5
6		0											
7		0											6
8		0											7
9		0											8
10		0											9
11		0											10
12		0											
13		0											11
14		0											12
15		0											13
16		0											14
17		0											15
18		0											
19		0											16
20		0											17
21		0											18
22		0											19
23		0											20
24		0											
25		0											21
26		0											22
27		0											23
28		0											24
29		0											25
30		0											
31		0											26
													27
TOTAL		0											28
MEAN		0											29
													30
													31
													TOTAL MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 39 53 N
LONG 106 43 30 W
DRAINAGE AREA 1 870 km^2
NATURAL FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

SASKATCHEWAN

QU'APPELLE RIVER NEAR LUMSDEN - STATION NO. 05JP001

SUSPENDED SEDIMENT FOR 1982

DAY	JAN TEMP. (°C)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB TEMP. (°C)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR TEMP. (°C)	MAR DAILY DISCHARGE (m^3/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1		1.23 B				0.913 B				1.07 B			1
2		1.23 B				0.909 B				1.09 B			2
3		1.24 B				0.896 B				1.10 B			3
4		1.24 B				0.880 B				1.10 B			4
5		1.24 B				0.886 B				1.08 B			5
6		1.23 B				0.876 B				1.07 B			
7		1.22 B				0.868 B				1.09 B			6
8		1.20 B				0.870 B				1.11 B			7
9		1.18 B				0.887 B				1.13 B			8
10		1.16 B				0.888 B				1.13 B			9
11		1.14 B				0.907 B							10
12		1.12 B				0.942 B				1.16 B			11
13		1.13 B				0.948 B				1.16 B			12
14		1.19 B				0.928 B				1.17 B			13
15		1.25 B				0.959 B				1.19 B			14
16		1.33 B				0.973 B				1.18 B			15
17		1.40 B				0.954 B				1.15 B			16
18		1.46 B				0.906 B				1.16 B			17
19		1.50 B				0.909 B				1.16 B			18
20		1.20 B				0.896 B				1.18 B			19
21		0.900 B				0.881 B				1.18 B			20
22		0.800 B				0.902 B				1.13 B			21
23		0.780 B				0.925 B				0.898 B			22
24		0.790 B				0.935 B				0.560 B			23
25		0.800 B				0.968 B				0.482 B			24
26		0.828 B				0.991 B				0.485 B			25
27		0.832 B				1.02 B				0.560 B			26
28		0.836 B				1.04 B				0.685 B			27
29		0.858 B								1.49 B			28
30		0.890 B								2.48 B			29
31		0.919 B								1.94 B			30
													31
TOTAL		34.125				25.905				34.550			TOTAL
MEAN		1.10				0.925				1.11			MEAN

DAY	APR TEMP. (°C)	APR DAILY DISCHARGE (m^3/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY TEMP. (°C)	MAY DAILY DISCHARGE (m^3/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN TEMP. (°C)	JUN DAILY DISCHARGE (m^3/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1		1.58 B				93.0	523	4 200		18.1	244	382	1
2		1.51 B				78.8	491	3 340		15.3	223	295	2
3		1.40 B			11.0	69.7	450 S	2 730		12.1	193	202	3
4		1.64 B				62.8	414	2 250		11.2	164	159	4
5		4.64 B				56.6	376	1 840		11.7	141	143	5
6		8.32 B				50.4	335	1 460		12.4	129	138	6
7		7.39 B				47.1	294	1 200		12.5	124	134	7
8		5.49 B				44.6	258	994		11.9	120	123	8
9		4.01 B				41.1	231	820		11.7	116	117	9
10		2.93 B				41.6	209	751		10.7	112	104	10
11		2.67 B			7.0	42.1	192 S	698	16.0	9.38	108 S	87.5	11
12		2.55 B				39.6	184	630		8.48			12
13		5.61 B				37.0	175	559		8.15			13
14		25.7 B				28.0	167	404		7.77			14
15		46.6 B				16.0	157	217		7.31			15
16		80.7 B				12.7	147	161		7.19			16
17		105 B				11.2	139	135		6.69			17
18		133				9.93	130	112		6.77			18
19	6.0	147	698 S	8 870		8.51	121	89.0		6.61			19
20		185	743	11 900		7.53	112	72.9		6.10			20
21		210	761	13 800		7.14	103	63.5		5.67			21
22		204	747	13 200		6.75	94	54.8		5.32			22
23	9.0	190	732 S	12 000		6.20	85	45.5	21.0	4.95	50 S	21.4	23
24		179	701	10 800		5.81	74	37.1		4.55			24
25		160	668	9 230		5.77	63	31.4		4.38			25
26		145	636	7 970	15.0	5.25	54 S	24.5		4.29			26
27	9.5	132	607 S	6 920		4.91	54	22.9		4.17			27
28		126	588	6 400		5.14	54	24.0		4.12			28
29		120	565	5 860		8.77	70	53.0		4.03			29
30		110	545	5 180		16.3	103	258		3.95			30
31						17.0	242	355					31
TOTAL		2 348.74				887.31		23 632.6		247.48			TOTAL
MEAN		78.3				28.6		762		8.25			MEAN

SASKATCHEWAN

QU'APPELLE RIVER NEAR LUNSDEN - STATION NO. 05JF001

SUSPENDED SEDIMENT FOR 1982

DAY	JUL TEMP. (°C)	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG TEMP. (°C)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP TEMP. (°C)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1		3.74				9.82				2.50			1
2		3.83				7.74				2.50			2
3		4.34				6.92				2.77			3
4		5.44				5.93				2.68			4
5		4.12			23.0	5.12	211 S	93.3		2.38			5
6		3.95				4.32				2.41			6
7		3.73				4.44				2.29			7
8		3.52				4.76				2.31			8
9		3.38				4.55				2.27			9
10		3.63				4.14				1.93			10
11		3.33				3.88				1.85			11
12		3.26				3.96				1.82			12
13	22.0	3.22	39 S	10.9		3.83				1.87			13
14		3.02				3.23				1.77			14
15		3.02				2.95				1.68			15
16		3.12				2.66			10.0	1.78	40 S	6.15	16
17		3.86				2.54				1.77			17
18		7.88				2.77				1.84			18
19		6.75				2.87				1.82			19
20		4.13				3.77				1.75			20
21		3.67				3.06				1.66			21
22		3.32				2.87				1.67			22
23		4.02				2.78				1.79			23
24		7.01				3.11				1.67			24
25		4.48			17.0	2.93	58 S	14.7		1.56			25
26		8.80				2.71				1.50			26
27		13.2				2.48				1.90			27
28		15.5				2.41				1.59			28
29		16.0				2.52				2.29			29
30		14.7				2.42				3.17			30
31		12.7				2.41							31
TOTAL		184.67				119.90				60.29			TOTAL
MEAN		5.95				3.87				2.01			MEAN

DAY	OCT TEMP. (°C)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV TEMP. (°C)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC TEMP. (°C)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1		2.87				1.63				0.777 B			1
2		2.50				1.64				0.840 B			2
3		2.38				1.50 B				0.900 B			3
4		2.62				1.40 B				0.900 B			4
5		2.26				1.30 B				0.870 B			5
6	6.5	1.91	28 S	4.62		1.20 B				0.890 B			6
7		1.77				1.13 B				0.920 B			7
8		1.75				1.08 B				0.940 B			8
9		1.76				1.00 B				0.930 B			9
10		1.62				1.04 B				0.925 B			10
11		1.58				1.06 B				0.923 B			11
12		1.54				0.930 B				0.922 B			12
13		1.62				0.940 B				0.920 B			13
14		2.04				0.950 B				0.918 B			14
15		2.08				0.960 B				0.900 B			15
16		1.94				0.960 B				0.860 B			16
17		2.00				0.950 B				1.00 B			17
18		2.03				0.945 B				1.16 B			18
19		1.98				0.920 B				1.18 B			19
20		1.79				0.900 B				1.19 B			20
21		1.70				0.880 B				1.20 B			21
22		2.14				0.840 B				1.18 B			22
23		2.22				0.820 B				1.18 B			23
24		2.17				0.800 B				1.18 B			24
25		2.13				0.780 B							25
26	6.5	1.99	22 S	3.78		0.770 B				1.19 B			26
27		1.93				0.760 B				1.19 B			27
28		1.96				0.755 B				1.19 B			28
29		1.90				0.760 B				1.19 B			29
30		1.70				0.765 B				1.20 B			30
31		1.70								1.20 B			31
TOTAL		61.58				30.325				31.945			TOTAL
MEAN		1.99				1.01				1.03			MEAN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 39 16 N
LONG 104 51 06 W
DRAINAGE AREA 18 300 km^2
REGULATED FLOW

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

QU'APPELLE RIVER NEAR LUMSDEN - STATION NO. 05JF001

DEPTH INTEGRATING PARTICLE-SIZE ANALYSIS OF SUSPENDED SEDIMENT FOR 1982

(METHOD OF ANALYSIS: B - BOTTOM WITHDRAWAL TUBE; C - CHEMICALLY DISPERSED; F - SONIC SIFTER; H - HYDROMETER; M - MECHANICALLY DISPERSED; N - IN NATIVE WATER; P - PIPETTE; S - SIEVE; V - VISUAL ACCUMULATION TUBE; W - DISTILLED WATER ADDED)

DATE	TIME	DISCHARGE MEASUREMENT (m³/s)	WATER TEMP. (°C)	CONCENTRATION OF SAMPLE(S) (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										METHOD OF ANALYSIS
					0.002	0.004	0.008	0.016	0.031	0.062	0.125	0.250	0.500	1.000	2.000	
APR 19	17:00	148	5.0	708 K	40	50	62	70	80	89	97	99	100			BNW
APR 23	14:30	190	9.5	732 K	56	64	72	78	85	90	94	98	99	100		BNW
APR 27	13:20	129	12.0	601 K	60	66	72	78	87	94	99	100				BNW
MAY 03	15:00	69.2	11.0	451 P	62	69	76	83	90	96	100					

K - SAMPLE(S) COLLECTED IN A SINGLE VERTICAL

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POOR

QUALITY

ORIGINAL